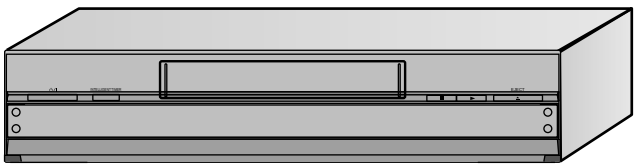
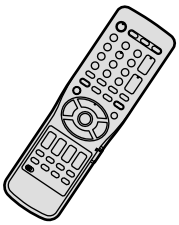
Panasonic

Video Cassette Recorder

NV-FJ730B
NV-FJ780B

Operating Instructions





SUPER DRIVE

VIDEO Plus+

VHS PAL

Q Link

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Before attempting to connect, operate or adjust this product, please read these instructions completely.

VQT9547

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Dear Customer

May we take this opportunity to thank you for purchasing this Panasonic Video Cassette Recorder.
We would particularly advise that you carefully study the Operating Instructions before attempting to operate the unit and that you note the listed precautions.

As this equipment gets hot during use, operate it in a well-ventilated place; do not install this equipment in a confined space such as a bookcase or similar unit.

Caution for AC Mains Lead
For your safety please read the following text carefully
This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-amperes and it is approved by ASTA or BSI to BS 1362.
Check for the ASTA mark ⓐ or the BSI mark ♡ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

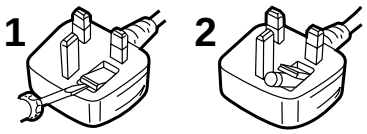
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

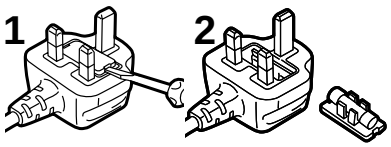
Under no circumstances should either of these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth Symbol ⏚.

How to replace the Fuse
• There are two types of the AC mains lead assembly:
Ⓐ and Ⓑ as shown on the right.
1 Open the fuse compartment with a screwdriver.
2 Replace the fuse and fuse cover.

TYPE A



TYPE B



IMPORTANT
Your attention is drawn to the fact that the recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING
To reduce the risk of fire electric shock or product damage, do not expose this equipment to rain, moisture, dripping or splashing and ensure that no objects filled with liquids, such as vases, shall be placed on the equipment.

FOR YOUR SAFETY
DO NOT REMOVE OUTER COVER.
To prevent electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.

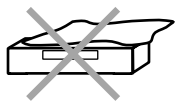
For your safety, be sure not to connect or handle the equipment with wet hands.

Caution

Be sure to read the cautions carefully before you operate this VCR.

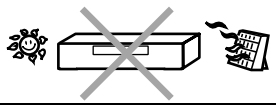
Do not cover the ventilation holes

The ventilation holes prevent excessive heat build-up inside the VCR during extended periods of use.
Do not block these holes; especially avoid covering them with soft materials such as paper or cloths.



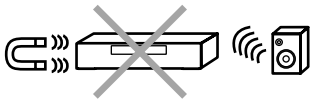
Keep the VCR away from high temperatures

Keep the VCR away from sources of heat such as direct sunlight, heating radiators, or closed vehicles.



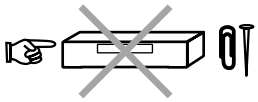
Avoid magnets or magnetized objects

Never bring a magnet or magnetized object close to the VCR because this could adversely affect the performance of the VCR. When using the VCR together with other equipment, keep as much distance as possible between them to prevent them from adversely affecting each other's performance.



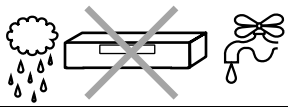
No fingers or other objects inside

Touching internal parts of the VCR is dangerous, and may cause serious damage.
Do not attempt to remove the cover as; there are no user serviceable parts inside.



Keep away from liquids

Keep the VCR away from all liquids.
Caution: If water or some other liquid is spilled into the VCR, serious damage could occur.
If this happens, disconnect from the mains socket immediately and consult your dealer.



Video head clogging

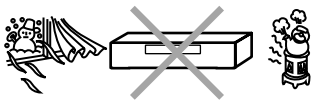
The picture and sound can be lost or become distorted if video heads become clogged.
This may happen in certain environmental conditions or if old or damaged or damp tapes are used or after long use of the VCR. If this occurs then please consult your dealer. Note: Video Head Cleaning is NOT covered by the warranty.

Cleaning the VCR

Wipe the VCR with a clean, dry cloth. Never use any cleaning fluid or other chemicals.
Also do not use compressed air to remove dust.

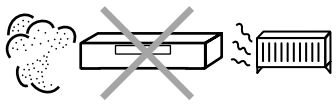
Avoid sudden changes in temperature

If the VCR is moved from a cold to a warm place or if a heater is turned on, condensation may form on the tape surface and inside the VCR.
If this happens, leave the VCR at room temperature for at least 1 hour before operating it.



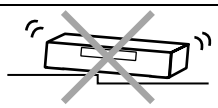
Avoid humidity and dust

Do not use the VCR in very humid or dusty places.
This may cause damage to its internal parts.



Stacking

Install the VCR in a horizontal position and do not place anything heavy on it.



Do not use cell phone near the VCR

Using a cell phone near the VCR may cause noise to adversely affect the picture and sound.

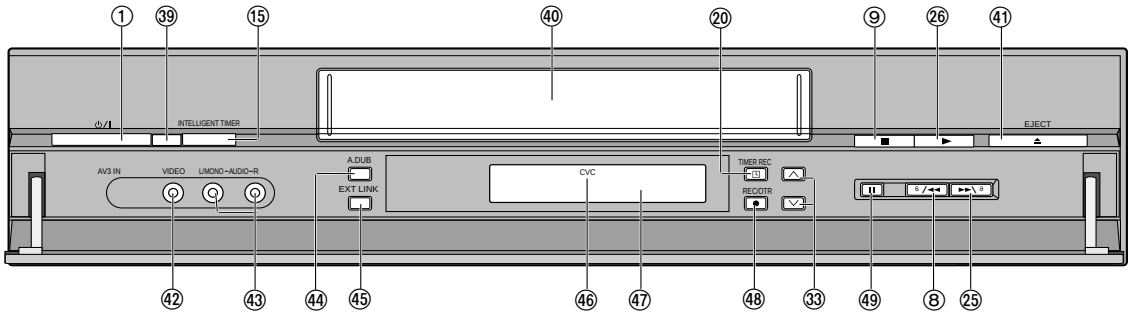
Condensation may form in the following cases:

- If the VCR is in a room that was very cold before a heater has just been turned on.
- If the VCR is in a room with steam or high humidity.
- If the VCR is brought from cold surroundings into a well-heated room.
- The VCR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place, which is hot and humid.

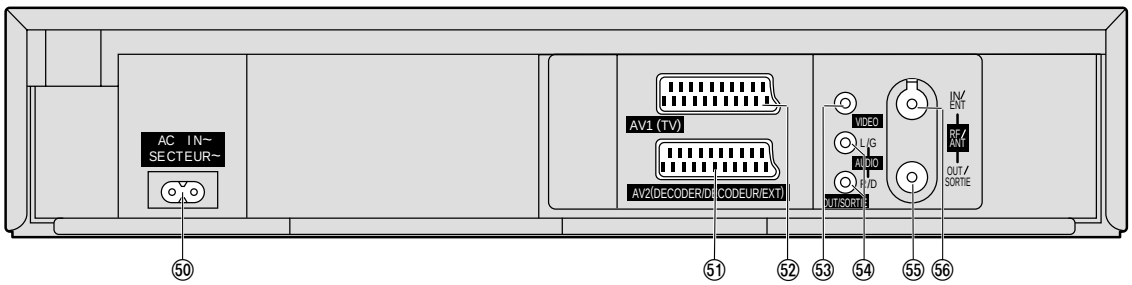
Note:

- In any of the above-mentioned conditions, do not operate the VCR for at least 1 hour.
  This VCR is not equipped with a dew sensor.

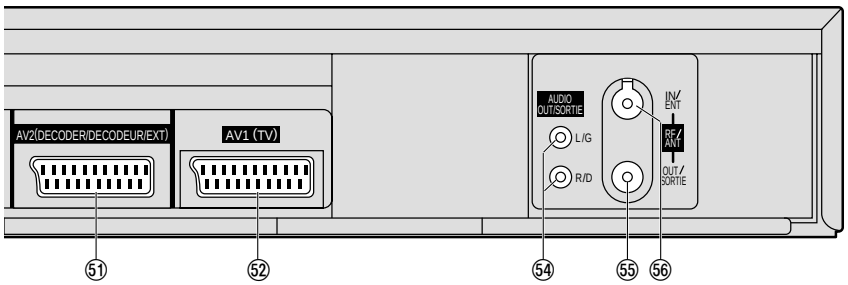
Controls and Connectors

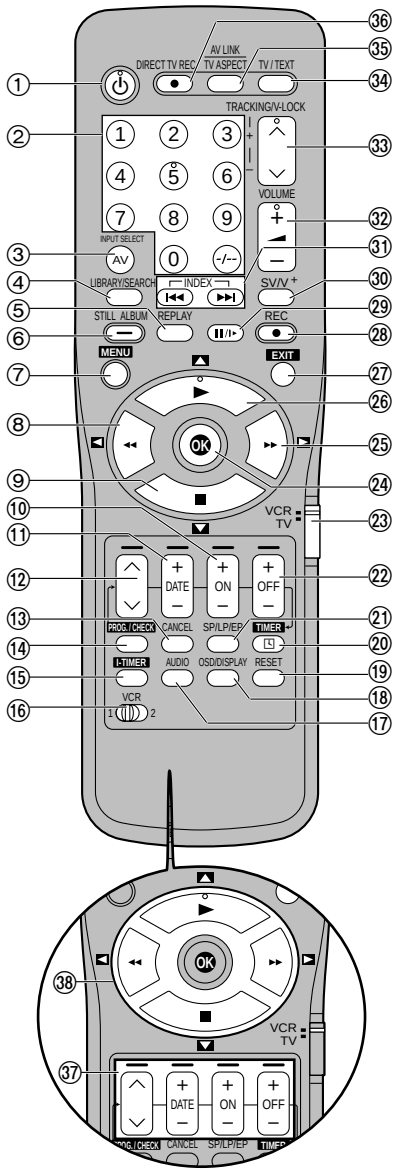


NV-FJ780B



NV-FJ730B





(1) [VCR-ON/OFF]/[TV-ON/OFF] button
(2) [Numeric] buttons
(3) [AV/INPUT SELECT] button (→p. 42, 43)
(4) [LIBRARY/SEARCH] button (→p. 27, 40,41))
(5) [REPLAY] button (→p. 17)
(6) [STILL ALBUM] button (→p. 44)
(7) [MENU] button
(8) [Rewind] button
(9) [Stop] button
(10) [ON] button
(11) [DATE] button
(12) [CH] button
(13) [CANCEL] button (→p. 14, 24)
(14) [PROG./CHECK] button
(15) [I-TIMER] button (→p. 25, 26)
(16) [VCR 1/2] switch (→p. 39)
(17) [AUDIO] button (→p. 37)
(18) [OSD/DISPLAY] button (→p. 19, 37)
(19) [RESET] button (→p. 17)
(20) [TIMER] button
(21) [SP/LP/EP] button
(22) [OFF] button
(23) [VCR/TV] switch
(24) [OK] button
(25) [Fast Forward] button
(26) [Play] button
(27) [EXIT] button
(28) [REC] button
(29) [Pause/Slow] button
(30) [SV/V+]([VIDEO Plus+])* button (→p. 14, 23)
(31) [INDEX] buttons (→p. 28, 40, 41)
(32) [VOLUME] button (→p. 13)
(33) [Channel] button/ [TRACKING/V-LOCK] button (→p. 17)
(34) [TV/TEXT] button (→p. 13)
(35) [AV LINK/TV ASPECT] button (→p. 13)
(36) [DIRECT TV REC] button (→p. 19)
(37) [Teletext] buttons (→p. 13)
(38) [Cursor] buttons
(39) Infra-red Remote Control Receiver window
(40) Cassette compartment
(41) [EJECT] button (→p. 20, 35)
(42) VIDEO IN (AV3)
(43) AUDIO IN (AV3)
(44) [A.DUB] button (→p. 43)
(45) [EXT LINK] button (→p. 20)
(46) CVC (CVC Super) indicator (→p. 45)
(47) VCR display
(48) [REC/OTR] button (→p. 19)
(49) [Pause/Still] button
(50) AC Input socket
(51) AV2 21-pin Scart socket
(52) AV1 21-pin Scart socket
(53) VIDEO OUT socket (For NV-FJ780B)
(54) AUDIO OUT socket
(55) RF OUT socket
(56) RF IN socket

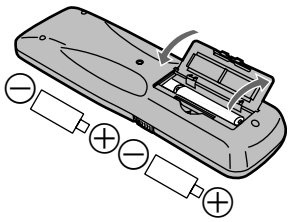
* It may be displayed [VIDEO Plus+] on some Remote Controls.

Checking the Accessories/Preparing the Remote Control

Inserting Remote Control Batteries

1 Open the battery cover and insert the batteries with the ⊕ and ⊖ correctly aligned.

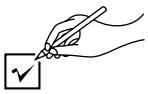
2 Close the battery cover.



Notes for Battery Replacement:

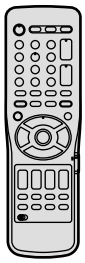
- When the batteries are exhausted, remove them immediately and dispose of them correctly.
- Do not mix old batteries with new batteries.
- Do not mix different battery types.
- Do not use rechargeable (Ni-Cd) batteries.
- Do not heat or short-circuit the batteries.
- When you do not use the remote control for a long time, take out the batteries and store them in a cool, dry place.

Check that you have the accessories shown

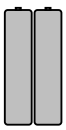


Tick off as you unpack the accessories.

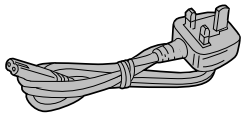
- ☐ **Operating Instructions** VQT9547 (This Book)
- ☐ **Quick Start Guide** VQC4083
- ☐ **Guarantee Card**
- ☐ **Remote Control** N2QAKB000024 or N2QAKB000041



- ☐ **Batteries for the Remote Control** R6 size



- ☐ **AC Mains lead** RJA0044-3C



- ☐ **RF lead to connect VCR and TV** K2KF2BA00001, VJA0728-A or K1TWACC00001

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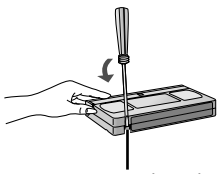
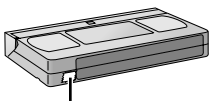
- Order accessory and consumable items for all Audio Visual Products with ease and confidence either by telephoning our Customer Care Centre on **08705 357357 Mon-Fri 9:00am-5:30pm**
- Or go on line through our Internet Accessory ordering application at **www.panasonic.co.uk**.
- Most major credit and debit cards accepted.
- All enquires transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!

1 To Prevent Accidental Erasure of Recording
Break out the tab or the rear side of the tape.

2 To Allow the Tape to be Used Again for Recording
Cover the hole with 2 layers of tape.

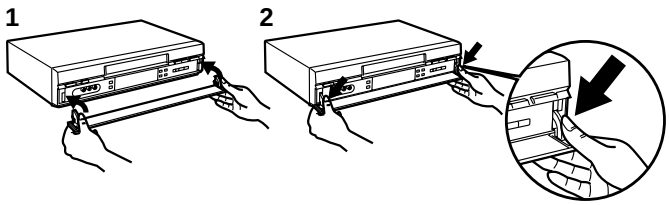


Erasure prevention tab



Adhesive tape

If the front panel comes off



1 Insert the panel as show in the illustration.
2 Ensure the panel is parallel to the until, then press firmly down and in on the levers until they click into place.
3 Check that the panel now moves correctly.
• If it does not, remove it and repeat the above procedure.

Tape Care

Some do's and dont's on tape care.

DO:

1) Use a good quality branded tape, such as Panasonic.
2) Keep in the box supplied with the tape, or a video case, when not in use.
3) Try to use the whole tape when making recordings and avoid re-recording over the same section of the tape repeatedly as this will help prevent premature tape wear.
4) Take care to insert a tape correctly into the VCR to avoid damage.

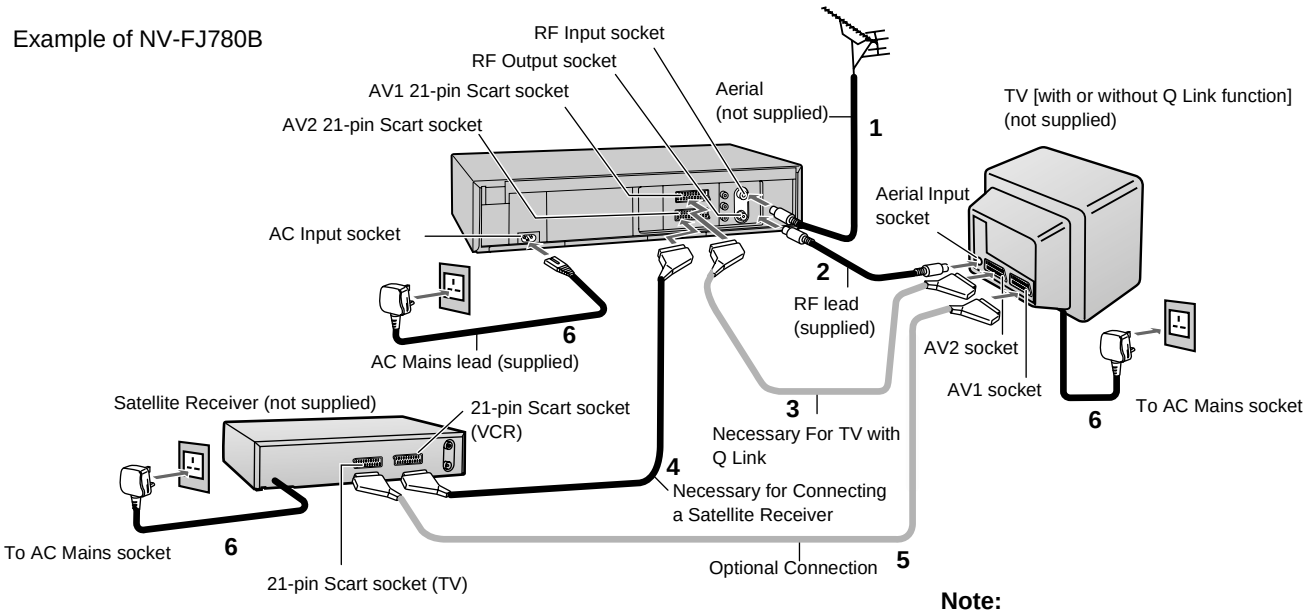
DO NOT:

1) Expose the tape to high humidity or temperature.
2) Expose to liquid.
3) Expose to dust particles by storing directly on a carpet for example.
4) Use a damaged tape or attempt to repair it.
5) Dismantle the cassette housing.
6) Attempt to lift the front cassette flap or touch the tape surface.

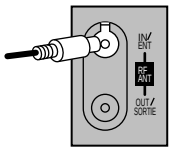
Connections (with Scart leads)

Follow the step-by-step guide below.

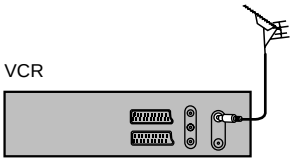
Example of NV-FJ780B

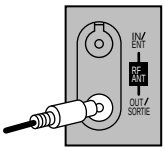


Note:
21-pin Scart leads are not supplied.

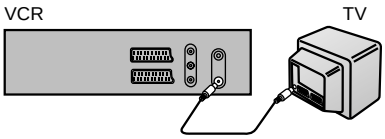
1 

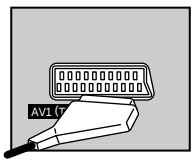
Connect the aerial to the RF Input socket of the VCR.



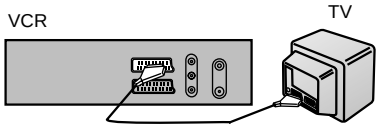
2 

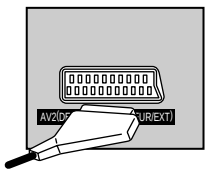
Connect the RF lead from the RF Output socket of the VCR to the TV aerial input socket.



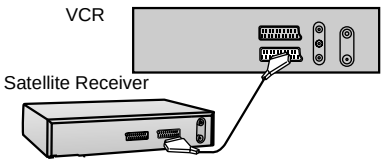
3 

Connect the AV1 21-pin scart socket to TV scart socket (optional). If your TV does not have a scart socket or you do not have a scart lead, skip this step.
• This is necessary for Download from TV with Q Link function.



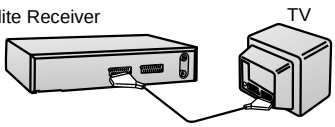
4 

Connect the AV2 21-pin scart socket to the VCR Scart Socket on your Satellite Receiver/Digital Sat receiver. If you are not connecting a Satellite Receiver, skip this step.



5

Connect the TV scart socket of your Satellite Receiver to the AV2 scart socket of your TV (optional).
If you are not connecting a Satellite Receiver, skip this step.

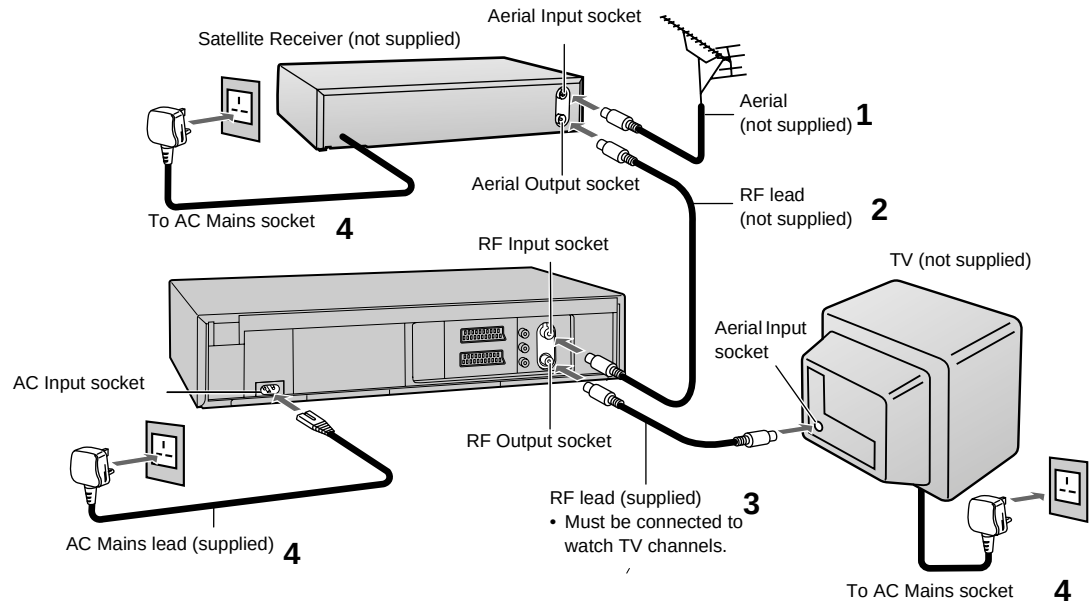


6

Plug the TV, VCR and Satellite Receiver into the mains as shown at top of the page.

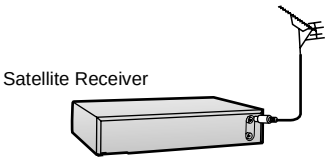
Connections (without Scart leads)

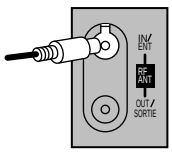
If you do not have any scart leads and your TV is not Q Link type, you can connect your VCR to a TV and Satellite Receiver using RF leads.
Using this connection method may however be difficult to obtain a clear picture from the Satellite Receiver. For this reason it is not recommended for inexperienced users.
(See preferred connection on page 6.)



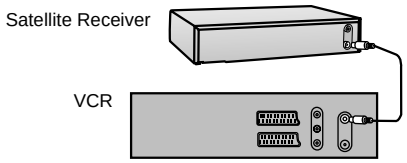
Example of NV-FJ780B

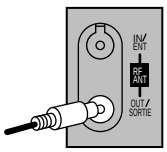
1 Connect the aerial to the aerial input socket of the Satellite Receiver.
• If you do not have a Satellite Receiver, connect the aerial to the RF Input socket of the VCR and go to step **3**.



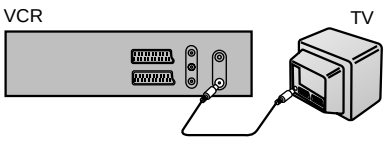
2 

Connect the aerial from Satellite Receiver to the RF Input socket.



3 

Connect the RF Output socket to the TV aerial socket.



4 Plug the TV, VCR and Satellite Receiver into the mains as shown at top of the page.

Notes:
• If you have an analogue satellite receiver, select [SKY ONE] or [SKY NEWS] on the receiver before starting Auto Setup. After Auto Setup is complete, the satellite position will be shown as [SAT] in the channel listing to denote programmes from the satellite receiver.
• If you have a digital satellite receiver, you can start Auto Setup with the receiver set to any channel. We recommend to manually name the [SAT] position after Auto Setup is complete. (See page 32.)

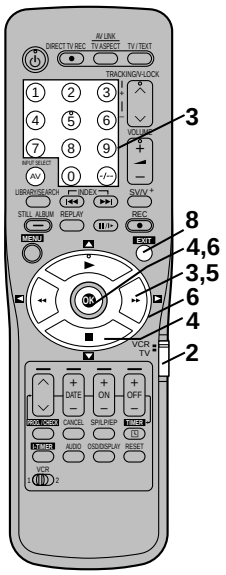
Auto Setup (For TV and VCR with Q Link Functions)

• If you do not have a Q Link TV, ignore this page and go to page 9.
The Preset Download function can automatically copy the tuning position of all available TV stations into the VCR's memory when you connect the VCR using a fully-wired 21-pin Scart lead to a TV equipped with the Q Link function.

To Set Up this VCR with a brand-new Q Link TV

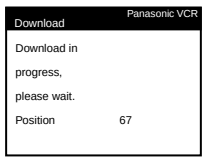
Perform the following operation steps exactly as described to ensure that the Preset Download function works correctly.
• First of all, make sure that the VCR is switched off.

START



1 Switch the TV on. The TV automatically starts to tune all available TV stations and to adjust the clock.
(This is called Auto Setup function.)
• When the TV has finished its own auto setup, the VCR is automatically switched on, and the downloading of the setup data from the TV to the VCR starts.

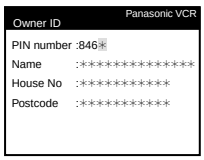
On Screen Display



Indication during downloading

2 Set the [VCR/TV] switch to [VCR].

3 When Download has finished, the screen for the Owner ID setting menu appears.
Press the [Cursor] button (►) and the [Numeric] buttons to enter a 4-digit PIN number.
• Make sure that you will remember the PIN number (make a note of it).



Menu for Owner ID setting

4 Press the [OK] button and the [Cursor] button (▼).
The cursor moves to [Name].

5 Press the [Cursor] button (►).

6 Press the [Cursor] buttons (▲▼◄►) to select a letter and then press the [OK] button.
Repeat this to enter the name.

FINISH

7 Enter [House No] and [Postcode] in the same way.

8 Press the [EXIT] button to make the On Screen Display disappear.

Hint:
• If you use a Panasonic Q Link TV and perform the operation step **1** above, starting the downloading of the setup data will automatically display the [Download] indication. However, in case of a TV of another make, the [Download] indication may not appear. In this case, select the AV input on your TV if you want to see the [Download] indication.

Notes:
• The explanations in this book refer to Panasonic Q Link TV and VCR, however they may also apply to other makes of TV and VCR with similar functions to Q Link. (See page 45 for details.)
• If you accidentally switch on the VCR before the TV, downloading of the setup data from the TV may not be performed correctly. In this case, follow the steps below.
1 Wait until the Auto Setup is complete on both the TV and the VCR.
2 Press the [MENU] button (7) to display the OSD Main menu from the VCR on the TV screen.
3 Press the [Cursor] buttons (38) (▲▼◄►) to select [Tuning] and then [Download].
4 Press the [OK] button (24) twice. Downloading of the setup data from the TV to the VCR starts.
5 When the programme position and the current time appear in the VCR display, downloading is complete.

To Set Up this VCR with an existing Q Link TV

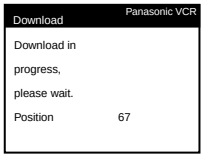
1 Switch the TV on.

2 Select the AV input on your TV.

3 Set the [VCR/TV] switch to [VCR].

4 Press the [VCR-ON/OFF] button to switch the VCR on.
Downloading of the setup data starts automatically.

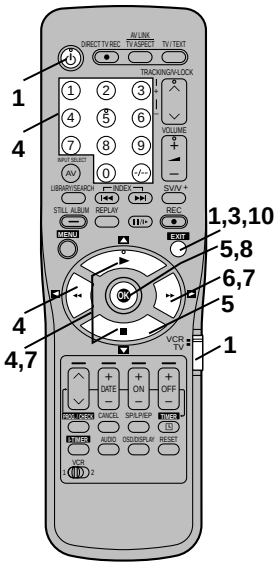
5 To setup the Owner ID, repeat the steps **3**–**8** above.



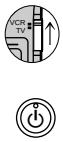
Indication during downloading

Auto Setup (For TV and/or VCR without Q Link Functions)

START



1

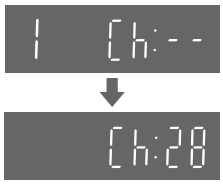


Set the [VCR/TV] switch to [VCR]. Turn on the TV, then press the [VCR-ON/OFF] button to switch the VCR on. The VCR will now start Auto Setup.

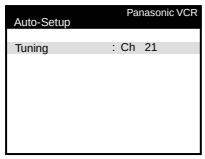
- If Auto Setup has previously been completed this indication will not appear. In this case you can re-start Auto Setup again. See page 34.
- In some cases, where the VCR has been connected to your TV using the RF lead only (no Scart) the RF output channel may interfere with the TV stations transmitted in your area. This may prevent you from seeing the On Screen Display clearly.
  Please refer to page 10 for removing the interference before restarting Auto Setup (page 34).

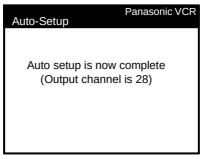
- If you want to cancel Auto Setup before it has finished, press the [EXIT] button. You can restart Auto Setup again, see page 34.
- The first digit of the VCR display will begin to flash. After a while, it will stop flashing and the RF output channel number will be displayed.
- If you have connected the VCR to the TV with a Scart lead, you will see the screen on the right during Auto Setup. You can skip step **2** below.

VCR Display



On Screen Display



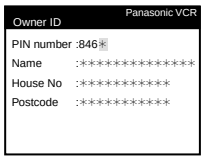


2 Select an unused channel pre-set on your TV and tune it to the RF output channel number shown on the VCR display (or until you can clearly see the Auto Setup screen shown on the right). Store the new video playback channel (refer to the instructions for your TV).

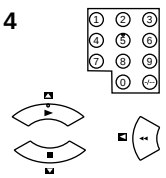
- If you can see interference on the picture, you may need to change the RF output channel. Follow the instructions on the next page to do this.

3

Press the [EXIT] button. The Owner ID screen will appear.
You can complete the Owner ID now or skip this step and do it later. To do it later, press the [EXIT] button again. Your VCR is now ready to use.

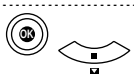


4



To set the Owner ID now, press the [Numeric] buttons or [Cursor] buttons (▲▼) to enter a four-digit PIN number. If you make a mistake then press the [Cursor] button (◄) and the re-enter the correct digit. Make sure that you will remember the PIN number (make a note of it).

5

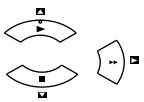


Press the [OK] button and the [Cursor] button (▼).
The cursor moves to [Name].

6

Press the [Cursor] button (►).

7



Press the [Cursor] buttons (▲▼) to select a letter and then press the [Cursor] button (►) to move to the next letter.
Repeat these steps until you have entered your name.

8

Press the [OK] button to finish setting your name.

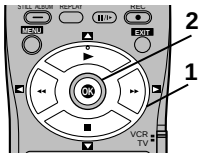
9 Enter the [House No] and [Postcode] in the same way.

FINISH

10

When you are happy with the information that you have entered, press the [EXIT] button to leave the Owner ID screen. You will now see the TV picture.
Your VCR is now ready to use.

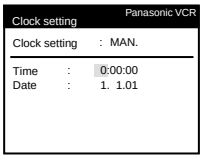
If the clock setting menu appears after Auto Setup has finished (Auto clock set was not possible due to weak signal)



1 Press the [Cursor] buttons (▲▼◄►) to set the correct time and date.

2 Press the [OK] button to finish this setting.

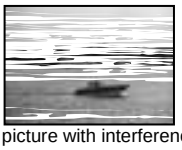
On Screen Display



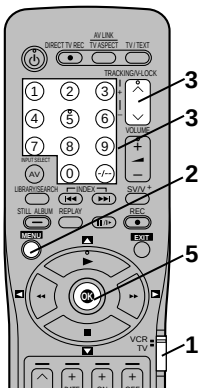
Removing Interference

In some cases, interference (lines or patterning) or a very poor picture may appear on the TV when the VCR is connected. If this happens, follow the steps below to change the video playback channel (RF output channel) to remove the interference.

TV screen



The picture with interference



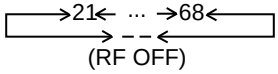
The clear picture

1 Set the [VCR/TV] switch to [VCR].

2 Press the [MENU] button for more than 5 seconds. The RF output channel number is displayed on the VCR display.

3 Press the [Numeric] buttons or use the [Channel] button to select a channel number, which differs by 2 or 3 from the present channel number.
(For example, if the original channel number was 28, enter 31.)

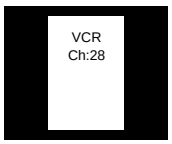
- Set the RF output channel of the VCR to [−−] (RF OFF) when the VCR is connected to the TV via the 21-pin Scart cable.
  Press the [Numeric (0)] button or [Channel] button to display [−−]. Skip the step **4**, if using a 21-pin Scart cable.



4 Retune your TV until you receive the Test pattern. It may be necessary to repeat steps **2** and **3** above until you can see the Test pattern clearly.

5 Press the [OK] button to finish this setting.

On Screen Display



Test pattern indication

VCR display

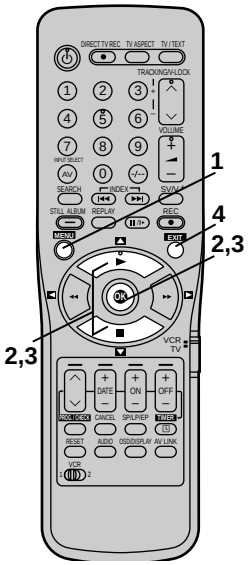
Indication when the RF output channel is 28 (example)

Indication after changing the RF output channel to 31 (example)

Test pattern indication

Checking the Settings for Auto Setup

To Confirm that the TV Stations Have Been Tuned Correctly by Auto Setup



1

Press the [MENU] button to display the OSD Main menu on the TV screen.

2

Press the [Cursor] buttons (▲▼) to select [Tuning] then press the [OK] button.

3

Press the [Cursor] buttons (▲▼) to select [Manual] then press the [OK] button to display the list of tuned TV stations and confirm that all available TV stations have been set correctly.

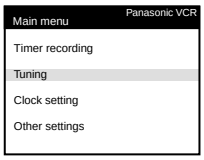
Positions 5 and 6 may differ from the example shown. If Channel 5 is received, it is usually found on programme position 5 and a connected satellite receiver on programme position 6.

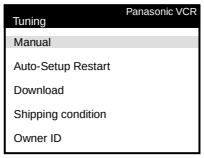
If Channel 5 is not received but a satellite receiver is connected, then the satellite receiver is found on programme position 5.

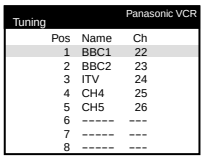
4

Press the [EXIT] button to exit the On Screen Display.

On Screen Display







List of tuned TV stations (example)

When the station names and/or channel numbers have not been set correctly.
See page 32 for details.

When no station has been found, confirm all connections of the VCR again and restart the Auto Setup.
See page 34 for details.

Notes:

- If station name is [∗∗∗∗∗]:
  The asterisks indicate that a station was found during Auto Setup but has not been named (due to weak signal).
  The stations in the list with asterisk will need to be named manually. (See page 32.)
- If station name is [−−−−−]:
  The dashes represent unused channel positions.
  The stations in the list with dashes will need to be set manually. (See page 32.)

Connecting the VCR to a Decoder/Connecting the VCR to a Stereo Amplifier

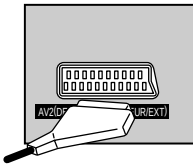
To connect this VCR to a decoder or a stereo amplifier, make the connections shown in the illustration below.
For the connection to the TV, see pages 6–7.

For details about the connection, also read the operating instructions of the decoder or stereo amplifier.

Be sure to keep the VCR, TV and decoder or stereo amplifier switched off until you have finished all connections.
For your safety, do not connect or handle the equipment with wet hands.

To Connect the VCR to a Decoder

Decoder here refers to the device used to decode scrambled broadcasts (Cable TV).

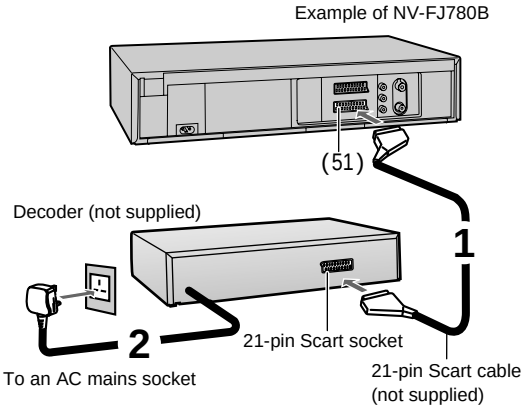


1 Connect a 21-pin Scart lead (not supplied) to the AV2 21-pin Scart socket (51) on the VCR and to the 21-pin Scart socket on the decoder.

2 Connect the decoder's mains lead to an AC mains socket.

3 Set [AV2] to [DECODER]. For details, see page 39.

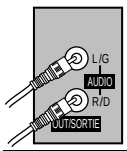
Example of NV-FJ780B



Hint:

- [RGB] means separate Red/Green/Blue colour signals. If you connect a TV equipped with RGB input capability to the AV1 socket (52) on this VCR, and a decoder equipped with RGB output capability to the AV2 socket (51), RGB signal will pass through the VCR to the TV.

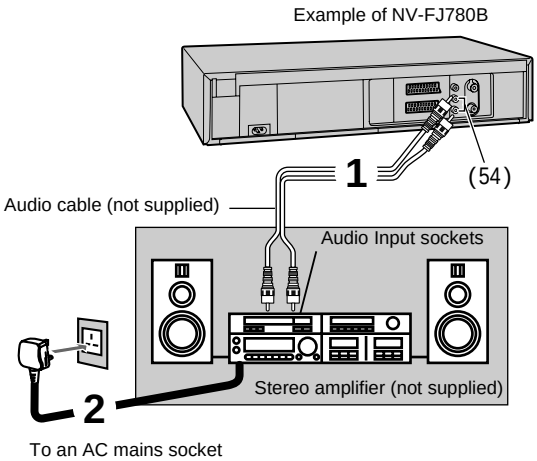
To Connect the VCR to a Stereo Amplifier



1 Connect an Audio cable (not supplied) to the Audio Output sockets (54) on the VCR and to Audio Input sockets on the stereo amplifier.

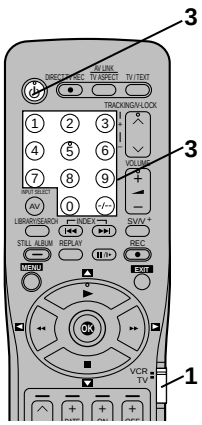
2 Connect the stereo amplifier's mains lead to an AC mains socket.

Example of NV-FJ780B



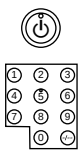
Setting the Remote Control to Operate Your TV

The supplied remote control will operate most brands of TV, follow the settings below:
• Some TV models cannot be operated with this remote control.



1 Set the [VCR/TV] switch to [TV].

2 Find the brand name of your TV in the table below and determine the code number for your TV.

3  While keeping the [TV-ON/OFF] button pressed, use the [Numeric] buttons to enter the brand name's code.
If there is more than one code listed for that brand name, try the first code.
Be sure to enter the code in the two-digit format.
Example: 01

4 Check whether you can operate the TV correctly with the VCR's remote control.

If the TV cannot be operated properly:
In step **3**, enter the other code listed for that manufacturer and repeat step **4**.

You can use the [TV-ON/OFF] (1), [Numeric] (2), [AV] (3)*1, [Channel] (33), [Teletext] (37)*2, [VOLUME] (32)*3, [TV/TEXT] (34)*4, and [TV ASPECT] (35)*5 button for your TV operation.

*1 To select desired AV input on the TV.
*2 If your TV is equipped for Teletext reception, you can use these buttons to change the teletext information displayed on the screen and select desired information. For details, refer to your TV's operating instructions.
*3 To adjust the volume of the TV.
*4 To switch between normal TV mode and teletext mode.
*5 To switch the screen format between the wide-screen and other formats.

List of TVs Compatible with the VCR's Remote Control

Brand Name	Code
Panasonic	01-04
AIWA	35
AKAI	27, 30
BLAUPUNKT	09
BRANDT	10, 15
BUSH	05, 06
CURTIS	31
DESMET	05, 31, 33
DUAL	05, 06
ELEMIS	31
FERGUSON	10
GOLDSTAR/LG	31
GOODMANS	05, 06, 31
GRUNDIG	09
HITACHI	22, 23, 31, 40, 41, 42
INNO HIT	34

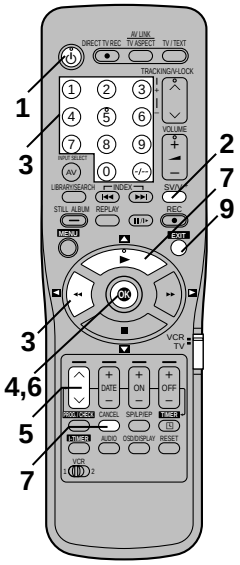
Brand Name	Code
IRRADIO	30
ITT	25
JVC	17, 39
LOEWE	07
METZ	28, 31
MITSUBISHI	06, 19, 20
MIVAR	24
NEC	36
NOKIA	25-27
NORDMENDE	10
ORION	37
PHILIPS	05, 06
PHONOLA	31, 33
PIONEER	38
PYE	05, 06
RADIOLA	05, 06

Brand Name	Code
SABA	10
SALORA	26
SAMSUNG	31, 32
SANSUI	05, 31, 33
SANYO	21
SBR	06
SCHNEIDER	05, 06, 29, 30, 31
SELECO	06, 25
SHARP	18
SIEMENS	09
SINUDYNE	05, 06, 33
SONY	08
TELEFUNKEN	10-14
THOMSON	10, 15
TOSHIBA	16
WHITE WESTINGHOUSE	05, 06

VIDEO Plus+ Codes for Satellite Receivers/Cable TV

This VCR is not designed to control (switch on or change channel) your satellite receiver or Cable TV box, however, it can be taught to recognise VIDEO Plus+ Codes for Satellite stations. The Satellite receiver or Cable TV box must be switched on and the correct station selected. Some receivers have their own timer facility for this purpose. Please refer to your Satellite Receiver/ Cable TV box instructions for use of such timer facilities.

For your VCR to recognise the VIDEO Plus+ Codes for each satellite station, you must teach your VCR which channel or AV input to record from for the first time. Otherwise when setting a VIDEO Plus+ recording, the [−−] symbol will appear in the channel position indicating that the VCR does not know which channel position to set. Once you have set the channel/AV input once the VCR will remember it whenever you use a VIDEO Plus+ Code for the station again.



1 **Turn on the TV and the VCR.**
Select video playback channel on the TV.

2 **Press the [SV/V+]([VIDEO Plus+]) button.**

3 **Enter a VIDEO Plus+ Code from a Satellite TV Guide for a satellite channel, e.g. Sky 1 using the [Numeric] buttons.**
If you make a mistake, use the [Cursor] button (◄) to go back.

4 **Press the [OK] button. [−−] will appear instead of a channel number/AV input.**

5 **Press the [CH] button to select the channel or AV input that is to be used for recording from the satellite channel.**

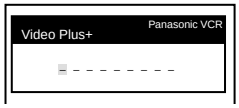
6 **Press the [OK] button to memorise the setting. The VCR will now automatically set the programme position or AV input correctly when a VIDEO Plus+ recording is set for this satellite station in the future.**

7 **Press the [Cursor] button (▲) to select the programme that you have just set. Now press the [CANCEL] button to delete it from the timer recording list. It is no longer needed.**

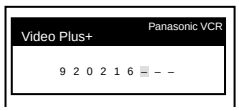
8 **Repeat steps 2–7 above until you have set and deleted dummy timer recordings for each of the satellite stations that you will make VIDEO Plus+ recordings from.**

9 **Press the [EXIT] button when you have finished.**

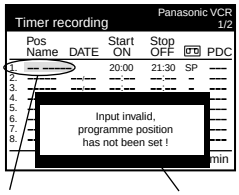
On Screen Display



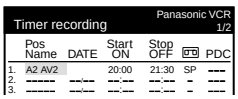
Menu for entering the Plus Code



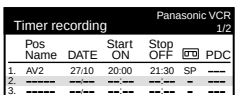
Indication when the Plus Code is entered



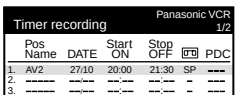
[−−] indication Warning message



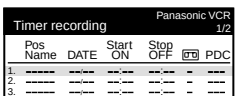
Indication when the settings are concluded



Indication when SAT channel is selected



Menu when the programme to cancel is selected



Menu after the programming has been cancelled

When You Insert a Video Cassette (For NV-FJ780B)

The Tape Library System makes it easy to check what programmes are recorded on the inserted tape and lets you quickly select a programme for playback. For further details about the Tape Library System, see page 27.

When you insert a cassette <u>with</u> an erasure prevention tab:

As soon as you insert the cassette, the Cassette Number Check starts automatically. Wait a few moments until this check is completed.

On Screen Display

VCR display

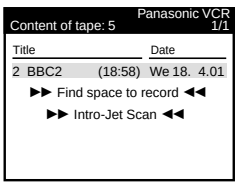
When you insert a cassette <u>without</u> an erasure prevention tab:

As soon as you insert the cassette, playback starts and the cassette number appears on the VCR display for several seconds. However, the cassette number and the cassette's contents (recorded programmes) do not appear on the On Screen Display.

(When loading cassette No. 5)

When inserting a cassette that was recorded on this VCR:

When the Cassette Number Check is completed, the cassette number and the cassette's contents (recorded programmes) appear on the On Screen Display, and the cassette number appears on the VCR display.

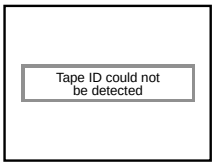


(When loading cassette No. 5)

The cassette number and tape contents are not displayed for the following types of cassettes:

a. New (never used) cassettes.
b. Cassettes recorded on another VCR.
c. Cassettes whose cassette number was deleted from the Library data.
d. Certain other kinds of cassettes.

In the above cases, the following indications appear:



(This indication appears for several seconds.)

(This indication appears for several seconds.)

If you want to cancel the Cassette Number Check midway:

Press the [Play] (26), [Stop] (9), [EJECT] (41) or [VCR-ON/OFF] (1) button after the check has started.

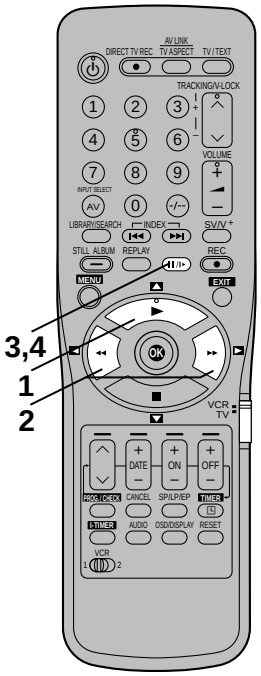
- No Tape Library data appears if you cancel the Cassette Number Check. (See page 29.)
- If you cancel the Cassette Number Check midway and then perform recording, a different cassette number may additionally be recorded on the cassette. However, this VCR will automatically cancel the added cassette number(s) when you play back the tape from the beginning.

To select a programme on the inserted cassette and start playback, see page 28.

To perform playback without making use of the Tape Library functions, recording or some other function, press the [EXIT] button (27) to make the Tape Library indications disappear, and then operate the VCR for the desired function. Pressing the [EXIT] button (27) is necessary even if the TV is not turned on.

To perform playback, recording or some other function, operate the VCR for the desired function.

Playback



VCR Display

1 **For Normal Playback:**
Press the [Play] button.

2 **For Cue or Review Playback:**
During playback, press and release the [Fast Forward] button or [Rewind] button.
- To return to normal playback, press the [Play] button.
- If you press and hold down the [Fast Forward] button or [Rewind] button, Cue or review playback continues for as long as you keep the button pressed.

For High Speed Cue or Review Playback (JET SEARCH):
During playback, press and release the [Fast Forward] button or [Rewind] button twice.
- During high-speed cue or review (Jet Search mode), the tape transport noise will increase. This is normal.

3 **For Still Playback:**
During playback, press the [Pause/Slow] button.
- To return to normal playback, press the [Play] button or the [Pause/Slow] button.

4 **For Slow Playback:**
During playback, keep the [Pause/Slow] button pressed for more than 2 seconds.
- To return to normal playback, press the [Play] button.

To Stop Playback
Press the [Stop] button (9).

Fast-forwarding or Rewinding the Tape
Press the [Fast Forward] button (25) or [Rewind] button (8) in the stop mode.
- To stop fast-forwarding or rewinding, press the [Stop] button (9).
- To briefly view the picture during fast-forwarding or rewinding, press and hold down the corresponding button.

Cue, Review, Slow Playback, JET SEARCH, and Still Playback
- Cue, review, slow playback, or JET SEARCH will be automatically cancelled after 10 minutes, and still playback after 5 minutes.
  SP and EP modes: Colour picture with horizontal noise bars.
  LP mode: Black and white picture and picture distortion.

Playback - Off Timer Function

(To automatically stop playback and switch off after a given time)

If you set the playback duration, the playback will stop automatically.
After the set playback time has elapsed, the VCR automatically stops playback and switches off.

►	**1**	During normal playback, press the [Play] button **on the VCR** for 2 seconds to select the Playback-Off Timer Function.	
►	**2**	Press the [Play] button repeatedly until the desired playback duration is shown on the VCR display. 30 (min.)⟶60⟶120⟶180⟶240⟶Counter Display	
■	**3**	To cancel this function, press the [Stop] button. The tape stops and the display returns to normal.	

To Play back a Recorded Part Repeatedly

Press the [Play] button (26) **on the remote control** for more than 5 seconds. The [R] indication appears on the On Screen Display.

• If [OSD] is set to [OFF] (See page 39), the [R] indication will not appear in repeat playback mode.

To Cancel the Repeat Playback Mode:

Press the [Stop] button (9).

Replay Function (to replay approximately 10 seconds of tape again)

This function will operate from Play, Cue and Review modes.

During play (cue, review), press the [REPLAY] button (5).

The Tape will rewind or fast forward for about 10 seconds and playback again.

To Play back NTSC Video Cassettes on Your PAL TV (Quasi-NTSC Playback Function)

This VCR allows playback of tapes recorded in the NTSC system on a PAL system TV, in the normal way.

On some TVs, the playback picture may not be stable. The picture may also not completely fill the height of the screen.

To Play back S-VHS Cassette Tape (SQPB=S-VHS Quasi Playback)

It is also possible to play back tapes recorded on an S-VHS VCR.

• The picture quality will be similar to VHS playback.

• It is not possible to make an S-VHS recording with this VCR.

To reset the tape counter (elapsed time) to "0:00.00"

• The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

• The tape counter can also be reset to "0:00.00" by pressing the [RESET] button (19) on the remote control.

Convenient function to prevent unauthorized use (Child Lock Function)

This function deactivates all buttons on the VCR and the remote control.

Use this function, when you do not want other people to operate the VCR.

To Activate the Child Lock Function:

1 Hold down the [OK] (24) and the [OFF (+)] (22) buttons simultaneously until the "hold" indication appears in the VCR display.

• If you press a button while the Child Lock function is on, the "hold" indication appears in the VCR display to inform you that no operation is possible.

To Cancel the Child Lock Function:

1 Hold down the [OK] (24) and the [OFF (+)] (22) buttons simultaneously until the "hold" indication disappears.

• If you disconnect the power cable, the Child Lock function is automatically cancelled after the power backup time of approximately 60 minutes has elapsed.

• If you cannot cancel the Child Lock function, press the [EXIT] button (27) and perform the operation 1.

Adjusting the Playback Picture

Under normal conditions, the VCR automatically adjusts the tracking for optimum performance. However, in some cases it may be necessary to adjust it manually.

If the Picture Contains Noise Bars and It Is Not Clear to See (Tracking adjustment):

If noise bars appear during normal playback, slow playback or still playback, follow the operations below.

During normal or slow playback, press the [Channel] button (33) ∨ (−) or ∧ (+) until the bars noise disappear.

• If the noise bars appear during still playback, switch the VCR over to the slow playback mode and then adjust the tracking as explained above.

To Return to Auto Tracking:

Press the [Channel] button (33) ∨ (−) or ∧ (+) simultaneously.

TV screen

Playback picture containing noise bars

If the Still Picture Jitters or Jumps (V-Lock Adjustment):

If the still picture jitters or jumps, perform the following.

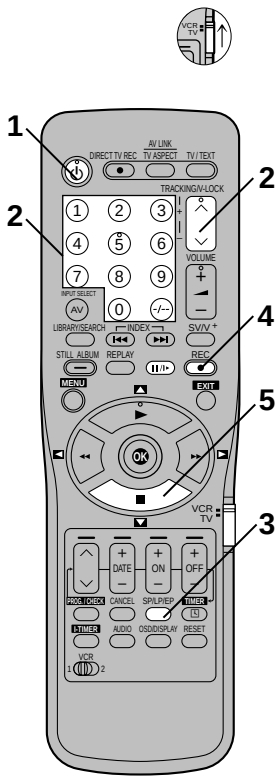
During still playback, keep the [Channel] button (33) ∨ (−) or ∧ (+) pressed until the picture becomes stable.

Precautions:

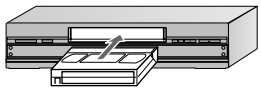
• With certain TV models and tapes, it may not be possible to adjust the tracking.

• If you play back a cassette that was recorded on another unit of VCR, the picture quality may be inferior in the normal playback, slow playback, and still playback, and it may need to manual adjust the tracking by above method. Also, on some TVs, the picture may scroll up and down in the special playback functions.
However, these are not malfunctions.

Recording



1 **Insert a video cassette with an intact erasure prevention tab.**
• If it has already been inserted, press the [VCR-ON/OFF] button to turn the VCR on.



VCR Display

2 **Select the TV station using the [Channel] button or the [Numeric] buttons.**
• To select the programme positions (1–99) of the VCR.
Example:
9: (9)
19: (-/--) → (1) → (9)

3 SP/LP/EP **Press the [SP/LP/EP] button before recording.**
• SP provides standard recording time and optimum picture quality.
LP provides doubled recording time with slightly reduced picture quality.
EP provides triple recording time with slightly reduced picture quality.

Record/Playback time
SP: 240 min with NV-E240
LP: 480 min with NV-E240
EP: 720 min with NV-E240

4 REC **Press the [REC] button to start recording.**

5 **Press the [Stop] button to stop recording.**

To Pause Recording

Press the [Pause/Slow] button during recording.
Press it again to continue recording.

Notes:
• We do not recommend the use of tapes longer than E240 type as the tape can be too thin.
• The recording pause mode will be automatically cancelled after 5 minutes and return to the stop mode.

To Watch One TV Programme while Recording Another TV Programme

After pressing the [REC] button (28) to start recording, select on your TV the programme that you want to watch.

To Display the Approximate Remaining Tape Time

The remaining tape time can be displayed in the VCR display.

1 Select the correct cassette tape length. See page 38.

2 Press the [OSD/DISPLAY] button (18) repeatedly until the Remaining Tape Time appears on the VCR display.
- Pressing the [OSD/DISPLAY] button (18) once makes the On Screen Display appear; after that, pressing it repeatedly changes the indication in the following order:

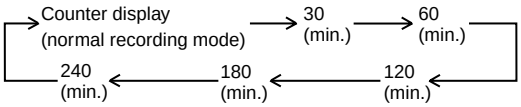
For certain cassettes, the remaining tape time may not be displayed correctly.

To Select the Recording Duration and Perform Timer Recording (One Touch Record)

You can start recording and select the recording duration by repeatedly pressing a single button. This is very convenient, for example when you want to start recording immediately but need to go out or want to go to bed.
After the selected recording duration has elapsed, recording stops and the VCR automatically switches off.

1 Press the [REC/OTR] button (48) to start recording.

2 Press the [REC/OTR] button (48) on the VCR repeatedly to select the desired recording duration.
- Every time you press this button, the recording duration indicated in the VCR display changes in the following order.



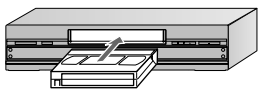
To Cancel the OTR Recording Before the End:
Press the [Stop] button (9).

To Immediately Record the Same TV Programme That You Are Viewing on the TV (Direct TV Recording)

For correct operation of the Direct TV Recording function:
- Your TV must be equipped with the Q Link function.
- The VCR must be connected to the TV via a fully-wired 21-pin Scart cable.

This function immediately records the same programme that you are viewing on the TV.
The programme position selected on the VCR automatically changes to the TV programme that you are watching.
When you stop the recording, the VCR automatically switches back to the original programme position.

1 Insert a video cassette with an intact erasure prevention tab.



2 DIRECT TV REC

Press the [DIRECT TV REC] button.
- Recording of the TV programme that you are viewing on the TV starts.
- In some cases, it may not be possible to change the programme position on the TV during Direct TV Recording.

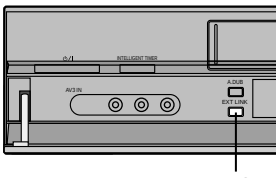
3

Press the [Stop] button, to stop recording.

External Timer Recording Control
(AV2 EXT LINK Settings)

The AV2 input of this VCR is equipped for future use with external equipment having external timer recording control such as digital satellite receivers. The AV2 input can be set to [EXT LINK 1] or [EXT LINK 2] depending on the equipment to be connected. Fully wired 21-pin cable is required. Refer also to the manufacture's instruction for the external unit.

EXT LINK 1: The VCR recording start and stop time is controlled by a control signal sent via the 21-pin cable from the external unit, for example Sky Digibox.
EXT LINK 2: The VCR will start recording when AV2 input detects the video signal and stop recording when the video signal is switched off by the external unit.



1 Make sure that [AV2] is set to [EXT LINK 1] or [EXT LINK 2] mode. (See page 39.)

2 Insert a video cassette with an intact erasure prevention tab into the VCR.

3 Timer programming has to be set and switched to the timer recording standby mode on the external equipment, refer to its operating instructions.

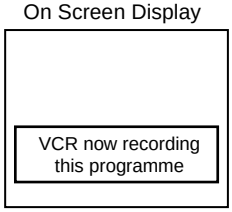
4 EXT LINK Press the [EXT LINK] button on the VCR to switch the VCR over to the timer recording standby mode.

5 As long as a video picture is being transmitted by the Satellite or Digital Receiver, the VCR will record it. This notice is displayed on the TV screen. (Only when [EXT LINK 2] is selected) To delete it, press the [OK] button.

6 EXT LINK To cancel the external control, turn off the timer recording standby mode of the VCR by pressing the [EXT LINK] button again.

VCR Display

On Screen Display



Notes:
- Make sure that the date and time of the external equipment are set correctly.
- To switch TV automatically to the picture from the VCR in playback mode, connect the AV1 socket of this VCR to the TV with a 21-pin cable as shown on page 6 (Optional Connection 3).
- Some external equipment may not work with this function, refer to the operating instructions for the external unit.

Convenient Automatic Functions

VCR Auto Power On
When you insert a video cassette, the VCR switches on automatically.

Auto Playback Start
When you insert a video cassette with a broken erasure prevention tab, playback starts automatically without pressing the [Play] button (26).

VCR-off Playback
When the VCR is off, and you press the [Play] button (26) with a tape inserted. The VCR switches on and playback begins.

Auto Rewind
When the tape reaches the end, the VCR automatically rewinds it to the beginning.
- This function is disabled during timer recording and OTR.

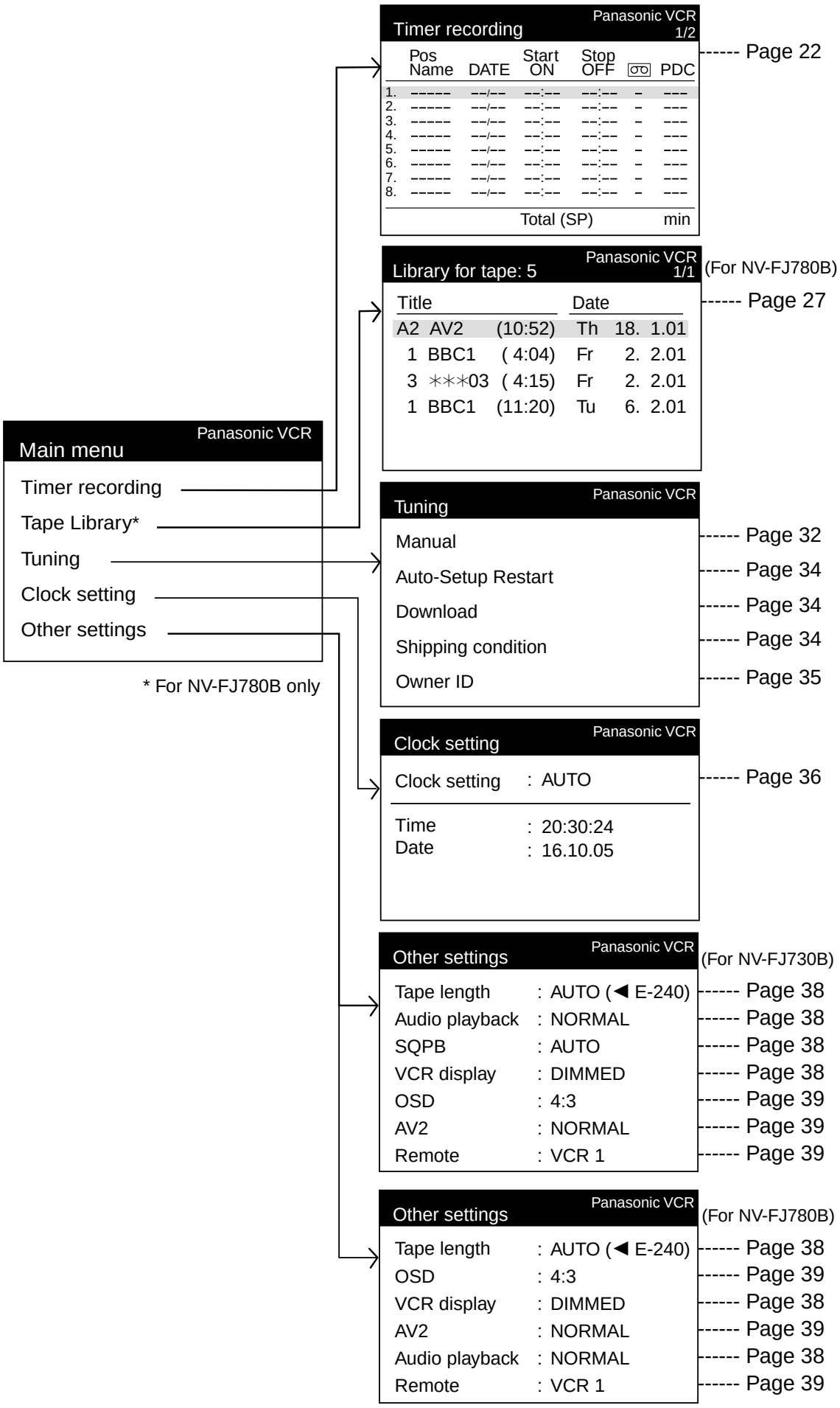
Automatic Switch Off and Eject
When the VCR is switched off, a tape can be ejected by pressing the [EJECT] button (41).
The VCR will eject the cassette and automatically turn itself off again.

VCR-off Search (For NV-FJ730B)
When the VCR is off, with the tape left in, Intro-Jet Scan can be performed by pressing the [SEARCH] button (4).

To Eject the Video Cassette Using the Remote Control
Keep the [Stop] button (9) pressed for more than 3 seconds.

The Menu System

Use this page as a reference guide to locate functions or settings within the menus.



Timer Recording

This function lets you programme the VCR to record when you are away from home or sleeping.
You can programme timer recordings in two different ways:
- By entering the information with the remote control while viewing the On Screen Display (OSD) on the TV screen. (explained below) or;
- By entering the VIDEO Plus+ Code published alongside the TV programme listings in newspapers and magazines. (See page 23.)

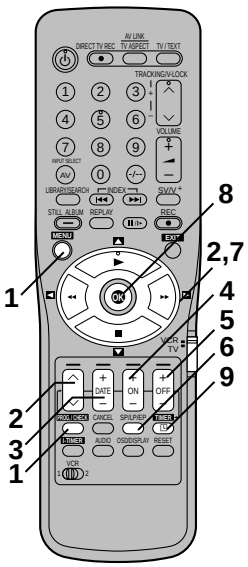
This VCR lets you set up to 16 TV programmes (including weekly and daily programmes) for unattended recording up to one month in advance.

Programming with the On Screen Display (OSD)

This method offers easy step-by-step programming with the remote control while you view the prompts on the TV screen.

Example:
Programming the timer recording of a TV programme broadcast on programme position 2 (BBC2) from 20:00 to 21:30 on 27 October.

•Insert a video cassette.



1 PROG./CHECK / MENU

Press the [PROG./CHECK] button to display the menu for programming timer recordings on the TV screen.
- Alternatively, you can press the [MENU] button and then select [Timer recording].

2

Press the [CH] button to select the desired TV station.
- As an alternative method, after pressing the [CH] button, you can use the [Cursor] buttons (▲▼◄►).

3 DATE

Press the [DATE] button to set the date on which the TV programme will be broadcast.

4 ON

Press the [ON] button to set the starting time.
- When it is kept pressed, the indication changes in 30-minute intervals.

5 OFF

Press the [OFF] button to set the ending time.

6 SP/LP/EP

Press the [SP/LP/EP] button to set the desired tape speed.
- Regarding the [A] indication, refer to page 24.

7

Press the [Cursor] buttons (▲▼◄►) to set PDC to [ON] or [−−−] [OFF].
- See page 24 for PDC recording.

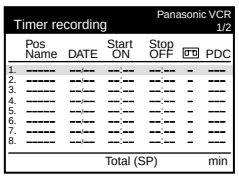
8 OK

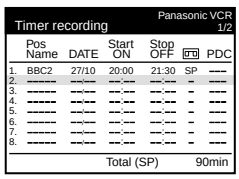
Press the [OK] button to conclude the settings.
- To programme additional timer recordings, repeat operation steps **2**–**8**.

9 TIMER

Press the [TIMER (REC)] button to switch the VCR over to the timer recording standby mode.
- Check that [⏲] is lit on the VCR display. If it is flashing, check the timer recording details again. (See page 24.)

On Screen Display

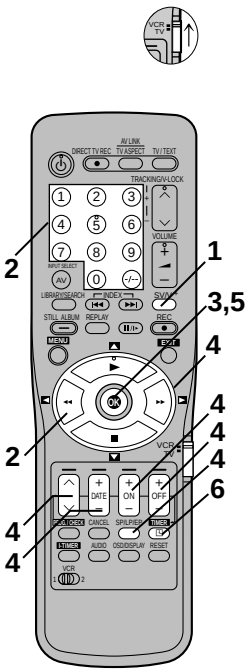




Programming with the VIDEO Plus+ Function

The VIDEO Plus+ Codes (numbers) make it easy to set the VCR for timer recording from TV channel and SAT channel.
The recording time may be slightly longer than the TV programme.

VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.



Example:
Programming a timer recording of a TV programme with the Video Plus+ Code 920126

1 SV/V+ **Press the [SV/V+]([VIDEO Plus+]) button to display the menu for entering the PlusCode on the TV.**

2 **Press the [Numeric] buttons to enter the PlusCode.**
- If you have entered a wrong digit, press the [Cursor] button (◄) and then enter the correct digit.

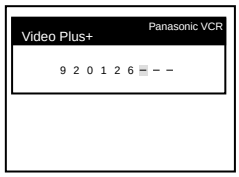
3 **Press the [OK] button to display the programmed content.**

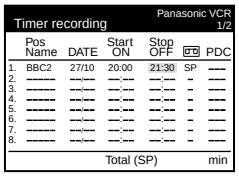
4 SP/LP/EP **Press the [SP/LP/EP] button to set the desired tape speed.**
- Regarding the [A] selected, refer to page 24.
- To extend the ending time or to make any corrections, use the [Cursor] buttons (▲▼◄►), the [CH], [DATE], [ON] or [OFF] button.
- See page 24 for PDC recording.

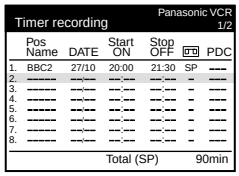
5 **Press the [OK] button again to conclude the settings.**
- To programme additional timer recordings, repeat operation steps **1**–**5**.

6 TIMER **Press the [TIMER (REC)] button to switch the VCR over to the timer recording standby mode.**
- Check that [⏲] is lit on the VCR display. If it is flashing, check the timer recording details again. (See page 24.)

On Screen Display





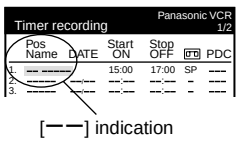


If [−−] Appears under [Pos/Name] after Entering a VIDEO Plus+ Code (Number)

Pos/Name is the Programme Position/TV Station Name.
Normally, the name of the TV station and the number of the programme position is displayed under [Pos/Name].
However, if the TV station information was not automatically set during Preset Download or Auto Setup due to adverse reception conditions, the [−−] indication appears instead. The [−−] will also appear, when using VIDEO Plus+ to record from a Satellite broadcast for the first time. For each satellite station, you will have to set the Pos/Name on the primary recording.
In this case, follow the steps below to set the Pos/Name.

Press the [CH] button (12) repeatedly to select the programme position on which the TV programme to be recorded will be broadcast.

After you have entered the information of a TV station, it remains stored in the VCR's memory, and you do not need to enter it again in the future.



To Suspend the Timer Recording Standby Mode

When you want to use the VCR for playback or manual recording before the programmed timer recording will be performed, you can temporarily suspend the timer recording standby mode by pressing the [TIMER (REC)] button (20) so that the [⏲] indication on the VCR display disappears.

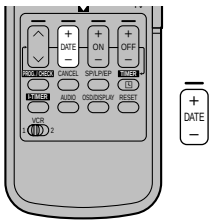
However, after you have finished using the VCR, remember to reactivate the timer recording standby mode by pressing the [TIMER (REC)] button (20) again, otherwise the programmed timer recording will not take place.

Note:
- If the VCR is not put in the timer recording standby mode at least 10 minutes before the programmed timer recording starting time, the [⏲] indication flashes on the VCR display. Press the [TIMER (REC)] button (20) to put the VCR in the timer recording standby mode.

Cable-TV connection - Consult your cable operator for advice.

Other Timer Recordings and Convenient Functions

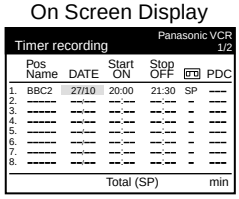
Setting the Recording Date/Day(s)



Press the [DATE] button to select the recording date (1 to 31), daily timer recording date (Su-Sa, Mo-Sa or Mo-Fr) or weekly timer recording date (Su to Sa) in operation step **3** (see page 22) when programming a timer recording with the On Screen Display, or in operation step **4** (see page 23) when programming with the VIDEO Plus+ Code.

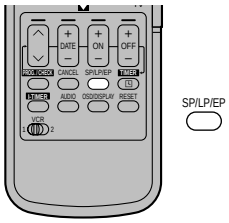
- Programming a timer recording (setting the date) is possible up to one month ahead of the TV programme's broadcasting date and time. Daily and weekly timer recordings will continue until you cancel them.

On Screen Display



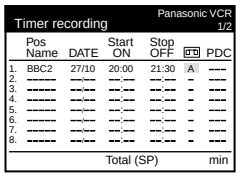
Ensuring that a TV Programme Will Be Recorded until Its End (Auto SP/LP Change Function)

If the VCR determines that the remaining tape time is insufficient to record the whole programme, LP mode is automatically selected to ensure that the programme will be recorded as long as possible.



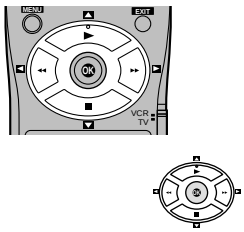
Press the [SP/LP/EP] button to select [A] in operation step **6** (see page 22) when programming a timer recording with the On Screen Display, or in operation step **4** (see page 23) when programming with the VIDEO Plus+ Code.

- **This function cannot change the recording speed to the EP mode.**
- If the remaining tape time is still not sufficient even in the LP mode, the programme cannot be recorded to its end.
- If the recording speed changes from SP to LP during a timer recording, some brief picture distortion will occur at that point.



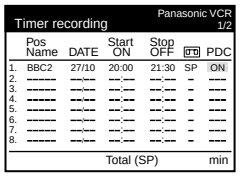
PDC Function

PDC stands for Programme Delivery Control.
If a TV programme, for example a football game runs longer than scheduled, is shortened or starts earlier or later, this function synchronises the recording start and stop with the actual start and stop of the TV programme.

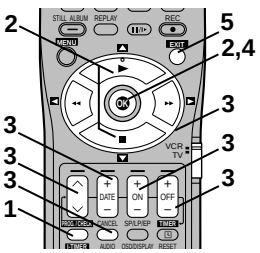


Press the [Cursor] buttons (▲▼◄►) to make the [ON] indication appear in operation step **7** (see page 22) when programming a timer recording with the On Screen Display, or in operation step **4** (see page 23) when programming with the VIDEO Plus+ Code.
Conditions for correct operation of the PDC function:

- [ON] must be displayed under [PDC] on the On Screen Display.
- The TV station must broadcast PDC signals.
- The programme starting time must be set correctly to the starting time listed in the newspaper/magazine.



To Check, Change or Cancel Timer Recording Programmes



1 PROG./CHECK — Press the [PROG./CHECK] button to display the timer recording programmes on the TV screen.

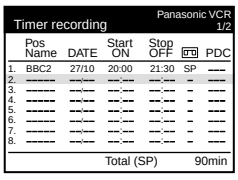
- When the VCR is in the timer recording standby mode for a PDC recording, the On Screen Display may be distorted.

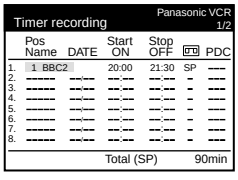
2 — Press the [Cursor] buttons ▲▼ to select the programme that you want to change or cancel and then press [OK] button.

3 CANCEL, [CH], DATE, ON, OFF — To change or cancel timer recording programmes, use the [Cursor] buttons ▲▼◄►, the [CH], [DATE], [ON], [OFF] or [CANCEL] button.

4 — Press the [OK] button to conclude the setting.

5 EXIT — Press the [EXIT] button to exit the On Screen Display.





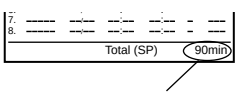
Note:
In the cases, below, the programming of a timer recording remains stored in the memory until 4 a.m. the next day. However, this is not a malfunction.

- When a timer recording was not completed because there was not enough tape left.
- When you have stopped the timer recording before it had finished.

To Check the Total Timer Recording Programming Time

The total time indication for timer recording programming lets you check how many programmes can be recorded by comparing it with the remaining tape time in the VCR display.

- The total time is calculated in the SP mode.
- The total time cannot be calculated when setting Daily/Weekly timer recording.



Indication for a total timer recording programming time of 90 minutes

Intelligent Timer Function

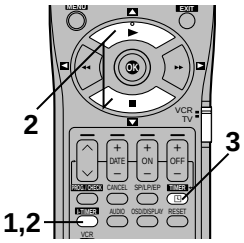
Many TV programmes are broadcast as a series, like dramas or Soaps, on different days of the week. These are often broadcast on the same channel and time each day. The Intelligent Timer Function remembers the channel number along with the start and end times of the last 8 programmes that you have recorded using Timer Recording or VIDEO Plus+.
By simply pressing the [I-TIMER] button (15) the details of the last 8 Timer Recording programmes are displayed on the screen with today or tomorrows date, (depending on whether the time set has elapsed yet). The details of each of the 8 memorised recordings can be used or changed to set a new timer recording.

Notes for using this function.
Details of up to 8 timer recordings are held in memory and are used to repeat a previous recording of a TV programme but on a new date and time. The Intelligent Timer Function cannot be used until at least one timer recording or VIDEO Plus+ Programme has been recorded.

Details of Weekly or Daily Timer Recording are not memorised and cannot be used with this function.

Using the Intelligent Timer function
Intelligent Timer Function has two different operation A and B.

Operation A — When you want to set the programme as it is:

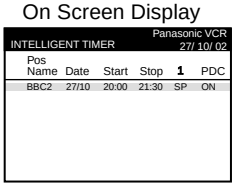


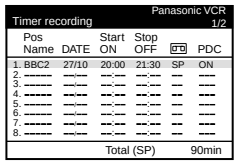
1 [I-TIMER] — Press the [I-TIMER] button to display the menu.

2 [Cursor] [I-TIMER] — Press the [Cursor] buttons ▲▼ or [I-TIMER] button to select the desired programme.

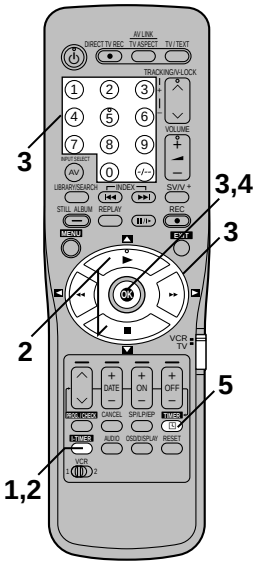
3 [TIMER] — Press the [TIMER (REC)] button to store the programming and the VCR will switch to the timer recording stand-by mode.
• The screen will change to the Timer recording listing.

On Screen Display





Operation B — When you want to make changes to a timer recording:



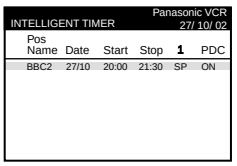
1 [I-TIMER] — Press the [I-TIMER] button to display the menu.

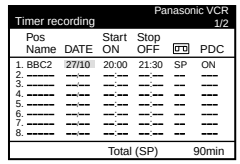
2 [Cursor] [I-TIMER] — Press the [Cursor] buttons ▲▼ or [I-TIMER] button to select the desired programme. You can now use the selected programme details if they are correct or change them if you need to adjust the date, etc.

3 [OK] [Cursor] [Numeric] — Press the [OK] button. To change the details (date, etc.) press the [Cursor] buttons ◄► to select the item that you want to change. Then press the [Cursor] buttons ▲▼ or the [Numeric] buttons to change the item.
• It is also possible to use the [CH], [DATE], [ON], [OFF], or [SP/LP/EP] button to select each item directly.

4 [OK] — When you are happy with all of the settings press the [OK] button.

5 [TIMER] — Press the [TIMER] button to switch the VCR over to the timer recording stand-by mode.



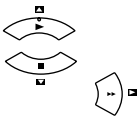


Note:
• Check that the [⏲] is lit on the VCR display.
If it is flashing, check the timer recording details again. (See page 24.)

Protecting programmes

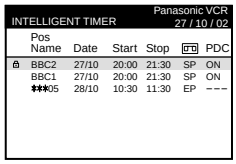
1

Press the [I-TIMER] button to display the menu.

2 

Press the [Cursor] buttons ▼▲ to select the programme details that you want to protect, then press the [Cursor] button ► to lock it. A lock symbol appears to the left of the programme. Locked programmes cannot be deleted.

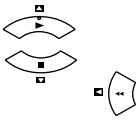
On Screen Display


Panasonic VCR
INTELLIGENT TIMER
27 / 10 / 02
Pos
Name Date Start Stop PDC
BBC2 27/10 20:00 21:30 SP ON
BBC1 27/10 20:00 21:30 SP ON
***05 28/10 10:30 11:30 EP – – –

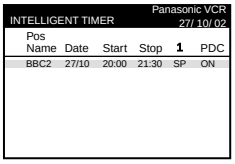
Releasing the protection

1

Press the [I-TIMER] button to display the menu.

2 

Press the [Cursor] buttons ▼▲ to select the programme details that you want to release, then press the [Cursor] button ◄. The lock symbol disappears.



Deleting the recording details

Locked programmes must be unlocked before they can be deleted (see above for details).

Press the [Cursor] buttons (38) ▼▲ to select the programme details that you want to delete, then press the [Cancel] button (13).

Notes:

- The Intelligent Timer Function can memorise the details of up to 8 timer recordings. If further timer recordings are made the Intelligent Timer Function will memorise the details of the new recording and the details of the oldest recording will be lost. To prevent losing a regularly used programme make sure the programme details are locked (see above).
- When Auto Setup Restart, Download Restart, shipping condition or etc. is done, all programmes of Intelligent Timer will be deleted automatically even if the programmes are protected.

Tape Library System (For NV-FJ780B)

This advanced system makes it quick and easy to check the contents of an inserted cassette. It can also be used to quickly find out which cassette in your collection contains a desired programme.
Whenever a cassette with an intact erasure prevention tab is inserted, the VCR first performs a brief check and then shows the number of the cassette and its contents on the On Screen Display. To start playback of the desired programme, simply select it on the On Screen Display and press the [LIBRARY/SEARCH] button (4).

To index each recorded programme for the Tape Library System, this VCR automatically registers the Library data (cassette number, title[*1], name of TV station[*2], recording time/date[*3], etc.) in the VCR's memory[*4] when the recording is performed.

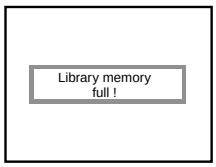
[*1] The name of the TV station or the programme position number is entered instead.
In case of a TV station with Teletext information, the title of the TV programme is entered automatically, provided the [Title page] is correctly set. (See page 32.)
[*2] In case of a TV station with Teletext information, the name of the TV station is registered automatically.
[*3] The VCR's clock must be set correctly.
[*4] The VCR's memory can hold a maximum of 128 programmes (or 30 tapes).

Precautions for Recording:

- We recommend that you use new tapes for recording.
- Each recorded programme should have length of at least 15 minutes in the SP or LP mode.
- Each recorded programme should have length of at least 25 minutes in the EP mode.
- No Tape Library data is registered during insert editing.
- If you copy a cassette with a cassette number, the tape library data may not be copied correctly. Therefore, the VCR's Tape Library System may not work correctly with such a copied cassette.
- When a new recording is made over existing recordings on a tape, the original programmes may be deleted from the list.
- The VCR's power back-up system protects the Tape Library data in the memory in case of a power failure and stores it for up to 5 years when the VCR is not connected to an AC mains socket.
- When the recording is completed and you eject the cassette, the cassette number remains displayed on the VCR display for approximately 30 seconds. Be sure to write this number on the cassette label.

VCR Display

- When the VCR's entire memory area has been used up by the Tape Library data, the indication [Library memory full !] appears on the TV screen for several seconds when Tape Library screen is opened. After this, recording is still possible but no new Tape Library data can be stored. In this case, delete the Tape Library data that you do not need any more before making further recordings. (See page 31.)



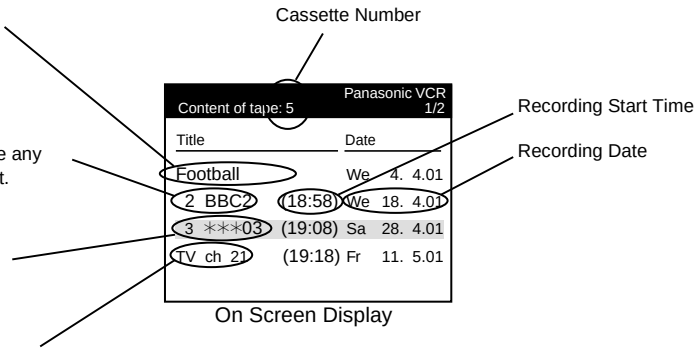
How to Read the Tape Library Contents

Title:
In case of a TV station with Teletext information, the title of the TV programme is entered automatically, provided the [Title page] is correctly set.

TV Station Name:
For a TV programme that was broadcast with Teletext information either when the broadcaster does not provide any TV programme pages or the title page is not correctly set.

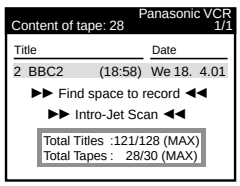
Programme Position Number:
For a TV programme that was broadcast without Teletext information.

Direct TV Rec:
For a TV programme recorded with the Direct TV Recording function.

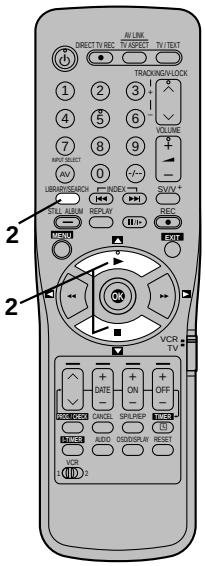


Notes:

- If you press the [ON] button (10) on the Tape Library screen, the total number of titles and tapes registered in the VCR are displayed.
- The total titles and total tapes of the VCR are automatically displayed when Tape Library screen is opened if either the total number of titles are 120 or more (or the total number of tapes are 28 or more).



To Check What Programmes are Recorded on the Inserted Video Cassette and To Play Back a Desired Programme



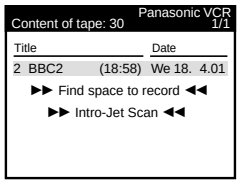
1 First, perform the operation steps explained on page 15.

2 Then press the [Cursor] buttons (▲▼) to select the programme and then press the [LIBRARY/SEARCH] button.

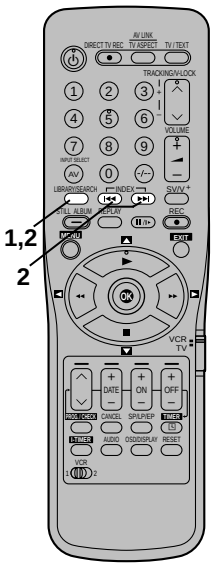
- After the selected programme has been found, the current tape contents list disappears and playback starts automatically.
- When you select the [Find space to record] indication at the bottom of the On Screen Display and press the [LIBRARY/SEARCH] button, the VCR automatically winds the tape to a position from which you can start recording.
- When you select the [Intro-Jet Scan] indication at the bottom of the On Screen Display and press the [LIBRARY/SEARCH] button, Intro-Jet Scan starts. (See page 41.)

LIBRARY/SEARCH

On Screen Display



To Check the Cassette Number Again:

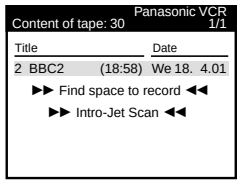


- Rewind the tape to its beginning.

1 Press the [LIBRARY/SEARCH] button.

- The Cassette Number Check starts automatically. Wait a few moments until the check is completed. When it is completed, the cassette number and its contents (recorded programmes) appear on the On Screen Display, and the cassette number appears on the VCR display.

LIBRARY/SEARCH



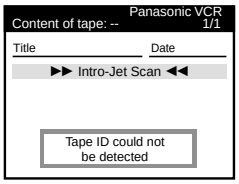
(Example: When Cassette Number Check was completed successfully)

If the cassette number does not appear and the following indication is displayed:

2 Press the [INDEX] ►►I button once to start the search for a programme. When playback starts, wait a few moments and then press the [LIBRARY/SEARCH] button.

INDEX

LIBRARY/SEARCH



- If the cassette number still does not appear, repeat this process until it appears.

Hint:

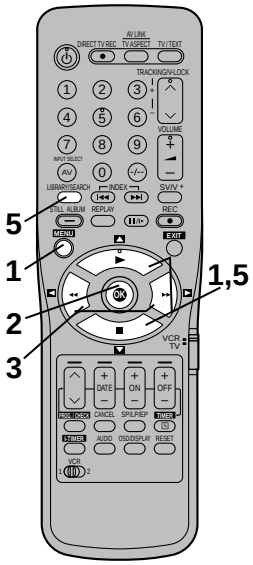
- Even after you have pressed the [Cursor] buttons (38) (▲▼) to select the [Find space to record] and the VCR has located the tape position from which to make a new recording, we recommend you to confirm that this tape position is really suitable, before you start recording.

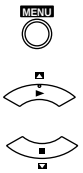
Note:

- In the case of certain cassettes, for example cassettes recorded on another NV-FJ780B model VCR or cassettes whose cassette number was deleted from the Tape Library data, the cassette number and contents (recorded programmes) are not displayed.

To Check on Which Cassette a Desired Programme Is Recorded

If you press the [LIBRARY/SEARCH] button (4), operation steps **1**, **2** are not necessary. In this case, start from the operation step **3**.



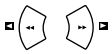
1 

Press the [MENU] button and then press the [Cursor] buttons (▲▼) to select [Tape Library].

2

Press the [OK] button.
- If a cassette is already inserted, its cassette number and contents appear.
- If no cassette is inserted, the lowest cassette number and its contents appear.

---

3 

Press the [Cursor] buttons (◄►) to display the contents of each cassette one after another, and search for the desired programme.

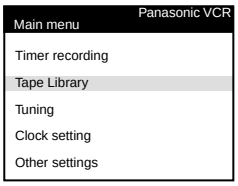
---

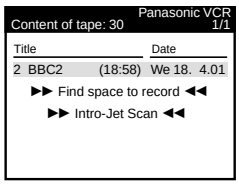
4 After you have found out which cassette contains the desired programme, insert that cassette into the VCR.

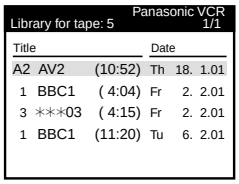
5

To play back the desired programme, press the [Cursor] buttons (▲▼) to select that programme and then press the [LIBRARY/SEARCH] button.
- After the selected programme has been found, playback starts automatically.

On Screen Display

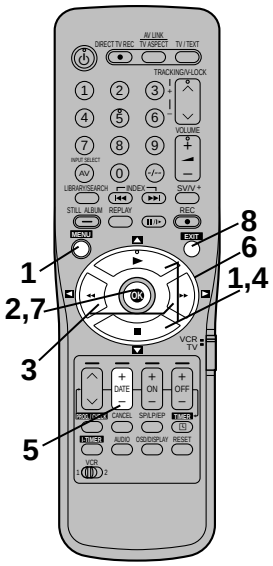


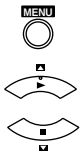




To Manually Enter or Editing a Title

If you press the [LIBRARY/SEARCH] button (4), operation steps **1**, **2** are not necessary. In this case, start from the operation step **3**.

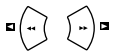


1 

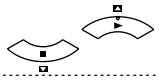
Press the [MENU] button and then press the [Cursor] buttons (▲▼) to select [Tape Library].

2

Press the [OK] button.

3 

Press the [Cursor] buttons (◄►) to display the contents of each cassette one after another, and search for the programme whose title you want to enter (or change).

4 

Press the [Cursor] buttons (▲▼) to select the desired programme.

5

Press the [DATE] button.
- The menu for entering (or changing) the title appears.

6

Press the [Cursor] buttons (▲▼◄►) to enter (or change) the title.
- Up to 15 characters can be entered for one title.
- To correct an input error, press the [Cursor] button (◄) and enter the correct character.

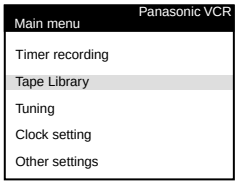
7

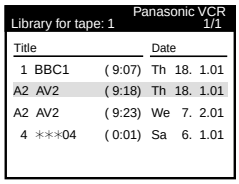
Press the [OK] button.
- When you enter (or change) the title, the recording start time, which was displayed before, disappears.

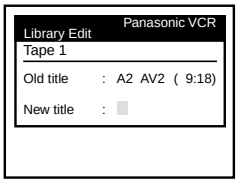
8

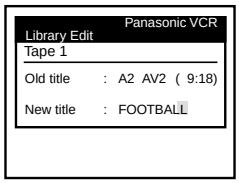
Press the [EXIT] button to exit the On Screen Display.

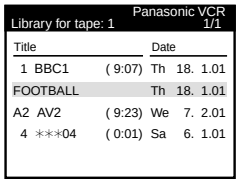
On Screen Display











Hints:

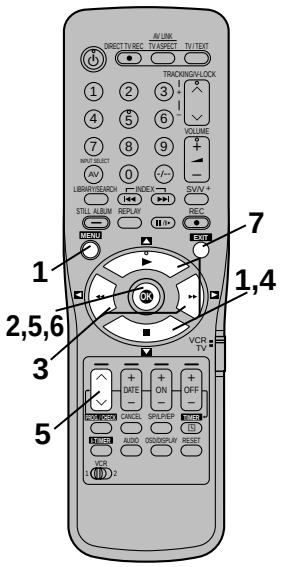
- The letters which can be used for entering (or changing) the title are the following:

A B C D E F G H I J
K L M N O P Q R S T
U V W X Y Z ✳ − +
0 1 2 3 4 5 6 7 8 9

- If the title needs a blank space, select the blank between [Z] and [✳].

To Delete the Tape Library Data

If you press the [LIBRARY/SEARCH] button (4), operation steps **1**, **2** are not necessary. In this case, start from the operation step **3**.



1 MENU

Press the [MENU] button and then press the [Cursor] buttons (▲▼) to select [Tape Library].

2

Press the [OK] button.

3

Press the [Cursor] buttons (◄►) to search for the cassette whose Tape Library data you want to delete.

4

Press the [Cursor] buttons (▲▼) to select the desired programme.

5

Press the [CH] button.
If you are sure to delete the programme, press the [OK] button.
If you want to delete all the programmes, repeat above procedures.

6

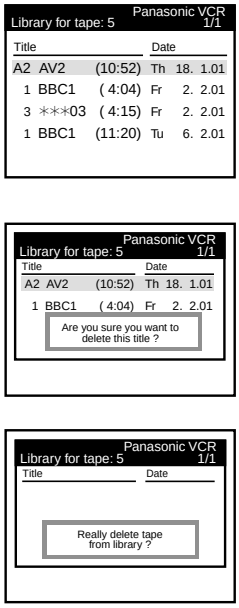
When no programme is left and the message appears, press the [OK] button.
- The cassette's Tape Library data are now deleted from the VCR's Tape Library.
- If you want to keep the cassette number, press the [EXIT] button instead of the [OK] button.

EXIT

7 EXIT

Press the [EXIT] button to exit the On Screen Display.

On Screen Display

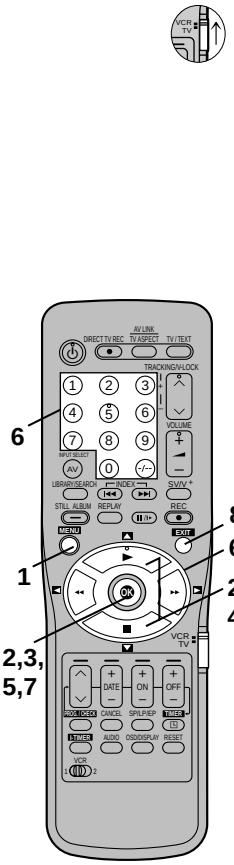

Panasonic VCR
Library for tape: 5
1/1
Title
Date
A2 AV2 (10:52) Th 18. 1.01
1 BBC1 (4:04) Fr 2. 2.01
3 ✳✳✳03 (4:15) Fr 2. 2.01
1 BBC1 (11:20) Tu 6. 2.01
Are you sure you want to delete this title ?
Really delete tape from library ?

Hint:

- Even if you delete a cassette's contents from the Tape Library while that cassette is in the VCR, this does not erase the actual programmes recorded on the cassette.

Manual Tuning

This VCR has 99 Programme positions that can be tuned to receive TV stations.
In certain circumstances you may wish to tune in a station manually or rename a TV station.
Follow the steps below:



1 MENU — Press the [MENU] button to display the Main menu on the TV screen.

2 Press the [Cursor] buttons (▲▼) to select [Tuning] then press the [OK] button.

3 Press the [Cursor] buttons (▲▼) to select [Manual] then press the [OK] button to display the list of tuned TV Stations.

4 Press the [Cursor] buttons (▲▼) to select the position that you want to tune manually.

5 Press the [OK] button to display the Manual Tuning menu.

6 Press the [Cursor] buttons (▲▼◄►) to select the desired field.

Pos: To change the order in which the TV stations are assigned to the programme positions.
- Press the [Numeric] buttons to enter the number of the desired programme position.

Name: To enter or change the name of a TV station.
- Press the [Cursor] buttons (▲▼◄►) to enter the station name.
- If the station name needs a blank space, select the blank between [Z] and [✳].

Channel: To enter newly available TV stations or change the channel number of an existing TV station.
- Press the [Numeric] buttons to enter the channel number of the desired TV station.
- Wait a few moments until the desired TV station has been tuned.

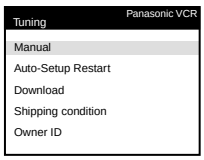
NICAM: To select the type of sound to be heard/ recorded.
- Press the [Cursor] buttons (▲▼) to select [AUTO].
- When you record a programme which is broadcast with NICAM sound, the NICAM sound is automatically recorded.
- Select [OFF] if you want to record the normal (mono) sound on the Hi-Fi audio tracks during a NICAM broadcast, or if the stereo sound is distorted due to poor reception conditions.

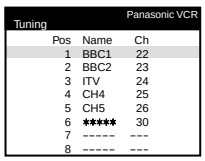
Title page (NV-FJ780B): To change the Title Teletext Page (TV Guide page) Number.
- Press the [Numeric] button or [Cursor] buttons (▲▼) to select the correct Teletext page number.

7 Press the [OK] button to finish the settings.

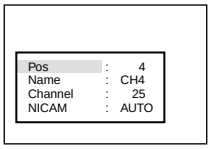
8 EXIT — Press the [EXIT] button to exit the On Screen Display.

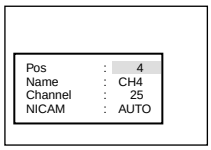
On Screen Display

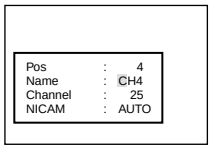


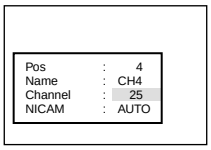


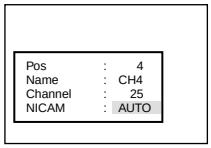
List of tuned TV stations (example)

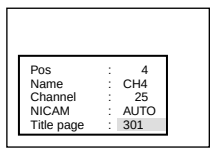




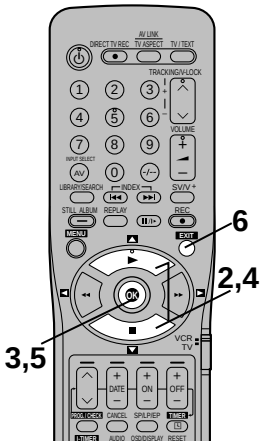








To Record the Title When Recording from an External Equipment (For NV-FJ780B)



1 Connect the external equipment to the VCR via 21-pin Scart lead.

2 Press the [Cursor] buttons (▲▼) to select AV1 or AV2 on the Tuning menu (Station list menu).
(See steps **1** to **3** on page 32.)

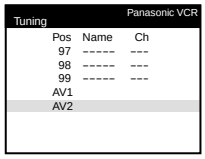
3 Press the [OK] button to display the Manual Tuning menu.

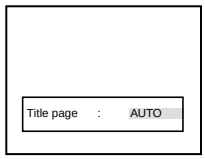
4 Press the [Cursor] buttons (▲▼) to select [AUTO]. This VCR records the title when recording a programme.
If you do not want to record the title, set to [OFF].

5 Press the [OK] button to conclude the setting.

6 Press the [EXIT] button to exit the On Screen Display.

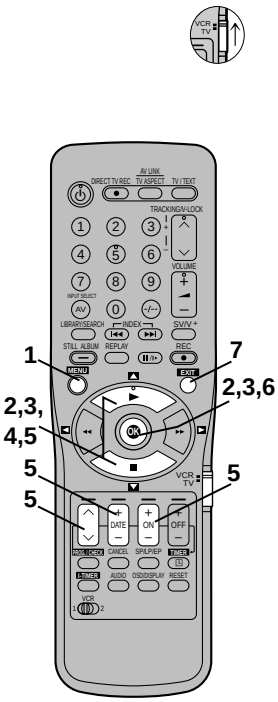
On Screen Display





Note:
• Depending on the input signal condition, the titles may not be got correctly.

To Delete, Add or Move a Programme Position



1 Press the [MENU] button to display the Main menu on the TV screen.

2 Press the [Cursor] buttons (▲▼) to select [Tuning] then press the [OK] button.

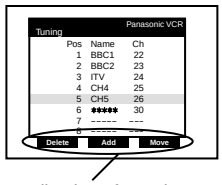
3 Press the [Cursor] buttons (▲▼) to select [Manual] then press the [OK] button to display the list of tuned TV Stations.

4 Press the [Cursor] buttons (▲▼) to select the desired TV station.

5 Follow the operations below.
To delete a programme position [Delete]:
Press the [CH] button (∧, red).
To insert a blank programme position [Add]:
Press the [DATE] button (+, green).
To move a TV station to another programme position [Move]:
Press the [ON] button (+, yellow), and then use the [Cursor] buttons (▲▼) to select the new programme position to which you want to assign the TV station. If downloading has been performed, only the instruction indication [Delete] appears.

6 Press the [OK] button to conclude the settings.

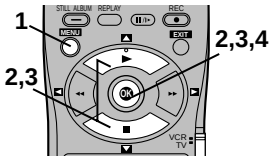
7 Press the [EXIT] button to exit the On Screen Display.



Indications for Delete, Add and Move

Hint:
• If you have performed Manual Tuning to enter TV stations, the [−−] indication may appear under [Pos/Name] on the On Screen Display when programming a VIDEO Plus+ timer recording.

To Restart the Auto Setup



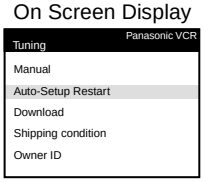
1 Press the [MENU] button to display the Main menu on the TV screen.

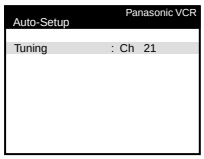
2 Press the [Cursor] buttons (▲▼) to select [Tuning] then press the [OK] button.

3 Press the [Cursor] buttons (▲▼) to select [Auto-Setup Restart] then press the [OK] button to prepare for Auto Setup start.

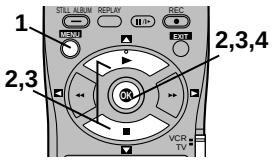
4 Press the [OK] button again to actually start the Auto Setup.

On Screen Display





To Restart the Download

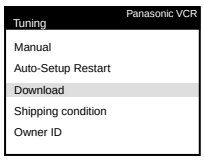


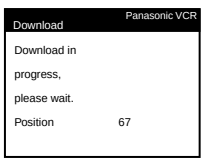
1 Press the [MENU] button to display the Main menu on the TV screen.

2 Press the [Cursor] buttons (▲▼) to select [Tuning] then press the [OK] button.

3 Press the [Cursor] buttons (▲▼) to select [Download] then press the [OK] button to prepare for Download start.

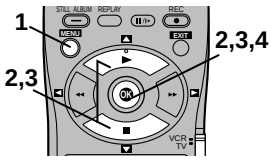
4 Press the [OK] button again to actually start the Download.





To Return the VCR to the Shipping Condition

Shipping condition resets the VCR back to the original factory settings.
This is useful if the VCR is going to be used in a new location as auto-setup will begin again when the unit is switched on (after connecting to aerial and mains).

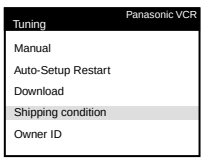


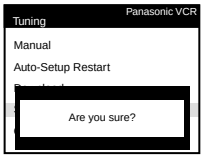
1 Press the [MENU] button to display the Main menu on the TV screen.

2 Press the [Cursor] buttons ▲▼ to select [Tuning] then press the [OK] button.

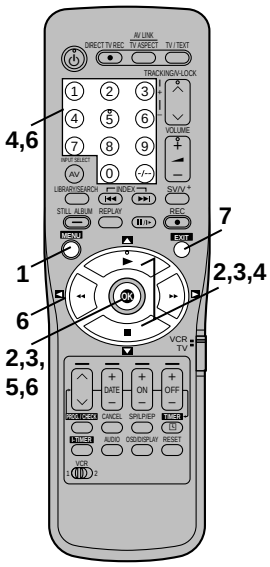
3 Press the [Cursor] buttons ▲▼ to select [Shipping condition] then press the [OK] button to prepare for resetting the VCR to the shipping condition.

4 Press the [OK] button to actually change the settings back to the shipping condition.
- As resetting the VCR to the shipping condition automatically resets the RF output channel to channel 21, the VCR picture may no longer appear on the TV.
- To re-tune the VCR, disconnect and reconnect the AC Mains Cable.





To Change the Owner ID

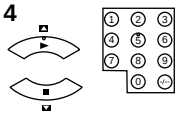


1

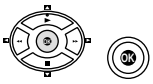
Press the [MENU] button to display the Main menu on the TV screen.

2
Press the [Cursor] buttons ▲▼ to select [Tuning] then press the [OK] button.

3
Press the [Cursor] buttons ▲▼ to select [Owner ID] then press the [OK] button.
• The Owner ID menu appears.

4 
Use the [Numeric] buttons or [Cursor] buttons ▲▼ to enter the current [PIN number].
• After entering the correct [PIN number], you can change the [Name], [House No] and [Postcode].

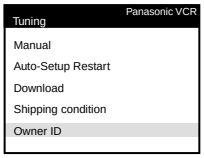
5
Press the [OK] button to conclude the setting.

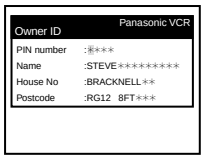
6 
Use the [Cursor] buttons ▲▼◄►, the [Numeric] buttons and the [OK] button to select and change the desired information.

7

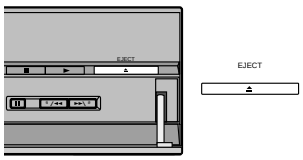
Press the [EXIT] button to exit the On Screen Display.

On Screen Display

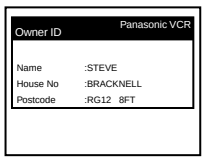




To Display the Owner ID setting menu



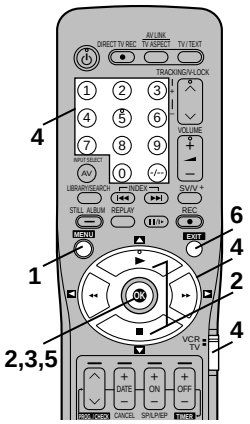
Keep the [EJECT] button pressed for more than 5 seconds.
• The PIN number is not displayed.
• After 30 seconds, this menu automatically disappears.



Setting the VCR's Clock

The clock will normally be set correctly during auto-setup or download however, in some circumstances the VCR cannot set the clock automatically. In this case, follow the operation steps below to manually set the clock.

To Manually Adjust the Clock



1 Press the [MENU] button to display the Main menu on the TV screen.

2 Press the [Cursor] buttons (▲▼) to select [Clock setting] then press the [OK] button.
• The Clock setting menu appears on the TV.

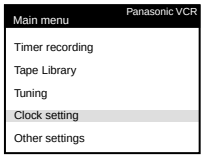
3 Confirm that [Clock setting] is set to [MAN.], and then press the [OK] button.

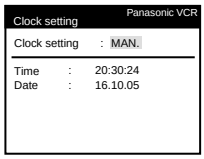
4 Use the [Cursor] buttons (▲▼◄►) to set the date and time.
• Instead of the [Cursor] buttons (▲▼◄►), you can also use the [Numeric] buttons to set the date and time. (Set the [VCR/TV] switch to [VCR].)

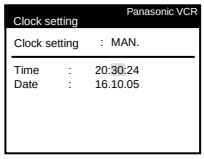
5 Press the [OK] button to conclude the settings.

6 Press the [EXIT] button to exit the On Screen Display.

On Screen Display
Example of NV-FJ780B

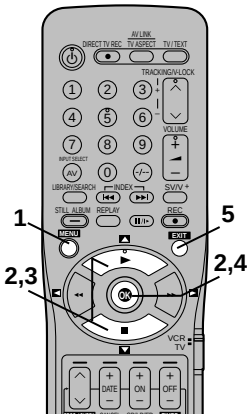






To Activate the Automatic Time Correction Function

The correct time for the VCR clock can be automatically maintained when the VCR is tuned to a station that transmits a time signal.



1 Press the [MENU] button to display the Main menu on the TV screen.

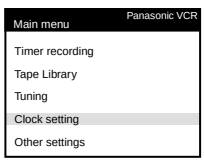
2 Press the [Cursor] buttons (▲▼) to select [Clock setting] then press the [OK] button.
• The Clock setting menu appears on the TV.

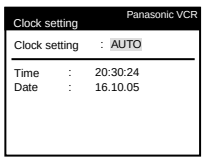
3 Use the [Cursor] buttons (▲▼) to set [AUTO].

4 Press the [OK] button to conclude the setting.
• Under adverse reception conditions, etc., the Automatic time correction function may not work. In this case, the indication for [Clock setting] is automatically reset to [MAN.].
If the reception conditions improve later on, it may be possible to activate this function.

5 Press the [EXIT] button to exit the On Screen Display.

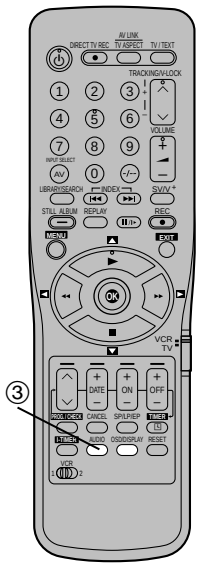
Example of NV-FJ780B





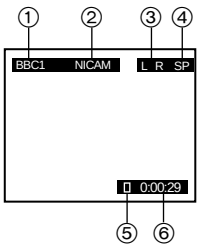
Hints:

- If [Clock setting] is set to [AUTO] when you open the Clock screen, do not set it to [MAN.], otherwise, the automatic time correcting function is deactivated.
- This VCR uses a 24 hour clock.
- In case of a power failure, an automatic back-up system maintains the clock for approximate 60 minutes.
- When [Clock setting] is set to [AUTO], the automatic time correction function checks and if necessary adjusts the time several times every day. The automatic time correction function only works when the VCR is in standby, it does not work in the timer recording mode.



On Screen Display

Press the [OSD/DISPLAY] button (18), the following information will appear on the TV screen.



(1) **TV station name**

(2) **NICAM or MONO Indicator**
Automatic indication of the type of sound system which the programme being watched (NICAM/MONO) is broadcast.
• If NICAM OFF is selected during manual tuning, [MONO] is always displayed.

(3) **Sound mode during playback (L/R)**
At each press of the [AUDIO] button (17), the selected playback sound is indicated with L (Left) and R (Right).
Stereo playback: The L and R indications are displayed.
Left audio channel playback: The L indication alone is displayed.
Right audio channel playback: The R indication alone is displayed.
Playback of normal audio track: Neither L nor R indication is displayed.

(4) **Tape speed indicator**

(5) **Tape running display**

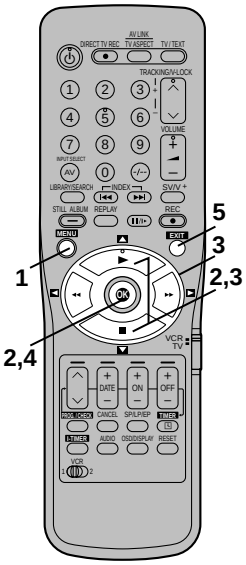
Stop	□
Rewind	◀◀
Fast Forward	▶▶
Playback	▷
Recording	●
Recording pause	▯▯
Repeat Playback	R
Audio Dubbing	ADUB

(6) **Present time/Tape counter/Remaining tape time/Index Search/One-Touch Recording (OTR)/Playback Off Timer Function**

Present time	17:24:31
Tape counter	–2:35.47
Remaining tape time	REMAIN: 2:34
Index Search	▶▶ 02
One-Touch Recording (OTR)	OTR 60
Playback Off Timer Function	30

Notes:
• If [OSD] is set to [OFF], none of the above indications appear.
• None of the above indications appear during special playback.
• During playback and when the AV input for the external source is selected, indications (1) and (2) do not appear.
• Some of the above indications do not appear when using NTSC tapes.

Settings for the Main Menu Item [Other settings]



1 MENU Press the [MENU] button to display the Main menu on the TV screen.

2 Press the [Cursor] button (▲▼) to select [Other settings] then press the [OK] button.

3 Press the [Cursor] button (▲▼◄►) to select the desired field and item to be set, in the following order.

Tape length:

- Press the [Cursor] buttons (▲▼) to select the tape length to be used.

  AUTO(◄ E-240): For E30, -60, -90, -120 -180 and -240 tapes
  E-195: For E195 tape
  E-260: For E260 tape
  E-300: For E300 tape

Audio playback:

- Press the [Cursor] buttons (▲▼) to select the type of audio mode to be used during playback.

  NORMAL: Normally set to this position.
  MIX: Use this setting when playing back a cassette tape on which audio dubbing has been performed.
  The Hi-Fi sound track with the original sound and the normal sound track (mono) with the audio-dubbed sound are played back together.

SQPB (For NV-FJ730B):

- Press the [Cursor] buttons (▲▼) to select [AUTO], [ON] or [OFF].
  Normally set to [AUTO].
  VCR automatically detects the format in which the recording was made and selects the same format for playback.
  However, picture distortion may appear.
  In this case, set to [ON] or [OFF].
  ON: Use this setting when playing back a cassette tape recorded in the S-VHS format.
  - Noisy playback pictures may appear depending on the type of tape used.
  - It is not possible to obtain the high resolution that S-VHS is capable of.
  - It is not possible to record in the S-VHS format with this VCR.

  OFF: Use this setting when playing back a cassette tape recorded in the <u>VHS format only</u>.
- For NV-FJ780B,VCR automatically detects the format in which the recording was made and selects the same format for playback.

VCR display:

- Press the [Cursor] buttons (▲▼) to select the desired setting.
- When the VCR is switched off, the brightness of the VCR display is as follows:

  ON: Display is brightly lit.
  DIMMED: Display is dimly lit.

On Screen Display
Example of NV-FJ730B

Other settings — Panasonic VCR

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

Other settings — Panasonic VCR

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

Other settings — Panasonic VCR

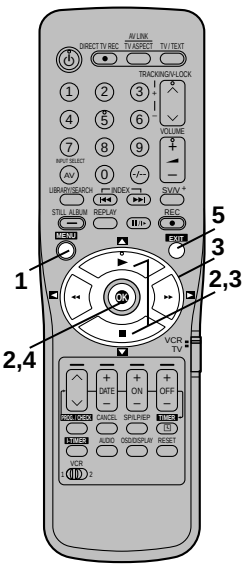
Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

Other settings — Panasonic VCR

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

Other settings — Panasonic VCR

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1



OSD:

- Press the [Cursor] buttons (▲▼) to select [4:3], [OFF] or [16:9]. (Normally set to [4:3].)
- When using wide screen TV and selecting the wide screen mode on the TV, indications do not appear. Therefore, set to [16:9].
- Even if setting to [16:9], indications may be cut off depending on the TV.

OFF: No indications appear.

On Screen Display
Example of NV-FJ730B

Panasonic VCR
Other settings

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

AV2:

- Press the [Cursor] buttons (▲▼) to select the type of external source equipment which is connected to the VCR's AV2 21-pin socket.
- Set the external source equipment as follows:

DECODER: When a decoder is connected.
EXT LINK 1: When a digital receiver which transmits a special control signal recordings via the 21-pin Scart cable, for example the F.U.N. receiver (TU-DSF30/S3) is connected for the linked timer recordings. (See page 20.)
EXT LINK 2: When external equipment with a timer function is connected for the linked timer recordings. (See page 20.)
NORMAL: When another VCR or a satellite receiver is connected.

Panasonic VCR
Other settings

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

Remote:

- Press the [Cursor] buttons (▲▼) to select the desired remote control mode.

VCR 1: Select this setting on both the VCR and the remote control for normal use with one VCR.
VCR 2: Select this setting on both the VCR and the remote control when using this VCR and another Panasonic VCR in the same place. This ensures that you can operate both VCRs independently with their respective remote control.
It also allows you to operate both VCRs with a single remote control, simply by changing the remote control mode on the remote control.

Panasonic VCR
Other settings

Tape length	: AUTO (◄ E-240)
Audio playback	: NORMAL
SQPB	: AUTO
VCR display	: DIMMED
OSD	: 4:3
AV2	: NORMAL
Remote	: VCR 1

VCR 1 2

- To change the remote control mode on the remote control itself, change the position of the [VCR 1/2] switch to match the setting made above.

If these settings are not matched, the remote control cannot be used to operate the VCR.

4 Press the [OK] button to finish the settings.

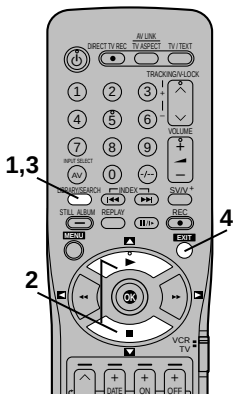
5 Press the [EXIT] button to exit the On Screen Display.

Search Functions

If you press the [LIBRARY/SEARCH] button (4) after a timer recording has finished, but before ejecting the cassette, the Timer Record Confirmation will be activated instead of the Intro-Jet Scan.

Timer Record Confirmation (For NV-FJ730B)

• Each timer recording programming on the tape must be at least 15 minutes long. (25 minutes in the EP)



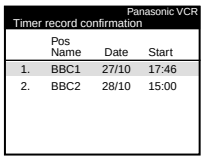
1 LIBRARY/SEARCH — Press the [LIBRARY/SEARCH] button to display the Timer Record Confirmation menu.

2 — Press the [Cursor] buttons (▲▼) to select the programme that you want to locate and play back.

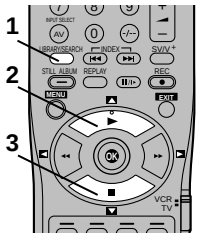
3 LIBRARY/SEARCH — Press the [LIBRARY/SEARCH] button to start the search for the beginning of the selected programme.
- When the desired recorded programme has been found, playback starts automatically.
- If, after playback has started, you want to search for the beginning of the same or another programme, press the [LIBRARY/SEARCH] button.
  Playback stops, and the Timer Record Confirmation menu appears.
  Repeat the operations steps **2**–**3**.

4 EXIT — To Cancel the Timer Record Confirmation Search:
Press the [EXIT] button.

On Screen Display



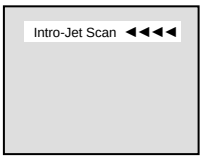
Intro-Jet Scan (For NV-FJ730B)



1 LIBRARY/SEARCH — Press the [LIBRARY/SEARCH] button to start the Intro-Jet Scan.
- After rewinding the tape to the beginning, the VCR plays back the first section of each recording at cue speed, fast-forwarding between recordings.

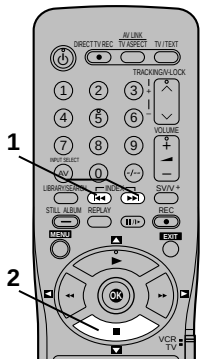
2 — When you have found the programme that you want to view, press the [Play] button to start normal playback.

3 — To Cancel the Intro-Jet Scan or to Stop Playback:
Press the [Stop] button.



VISS=VHS Index Search System (For NV-FJ730B)

Each programme recorded on the tape must be at least 5 minutes long.



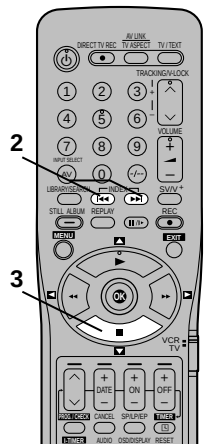
1 INDEX — To search for the beginning of a recording, press the [INDEX] button I◄◄ (for searching backward) and ►►I (for searching forward).
You can press the button twice or three times to locate the second or third recording in either direction.
- The VCR fast-forwards or rewinds the tape and searches for the specified index signal at the beginning of the desired recording then playback starts automatically.

2 — To Cancel the Index Search or to Stop Playback:
Press the [Stop] button.

VCR Display

VISS=VHS Index Search System (For NV-FJ780B)

Each programme recorded on the tape must be at least 5 minutes long.



1 Insert a recorded video cassette.
As soon as the cassette is inserted, the Cassette Number Check starts. Wait a few moments until it is completed. (See page 15.)

2

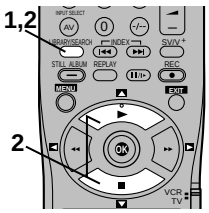
To search for the beginning of a recording, press the [INDEX] button ⏮ (for searching backward) and ⏭ (for searching forward).
You can press the button twice or three times to locate the second or third recording in either direction.
- The VCR fast-forwards or rewinds the tape and searches for the specified index signal at the beginning of the desired recording then playback starts automatically.

3
To Cancel the Index Search or to Stop Playback:
Press the [Stop] button.

VCR Display

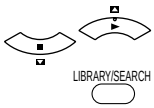
To Find space to record (For NV-FJ780B)

- This function lets you search the position to record of the tape.



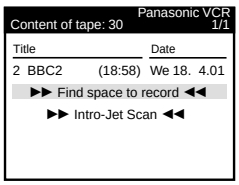
1

Insert a recorded video cassette.
If a cassette is already in the VCR, press the [LIBRARY/SEARCH] button.
- As soon as the cassette is inserted, the Cassette Number Check starts. Wait a few moments until it is completed. (See page 15.)

2 

Press the [Cursor] buttons (▲▼) to select the [Find space to record] indication and then press the [LIBRARY/SEARCH] button to start search.

On Screen Display



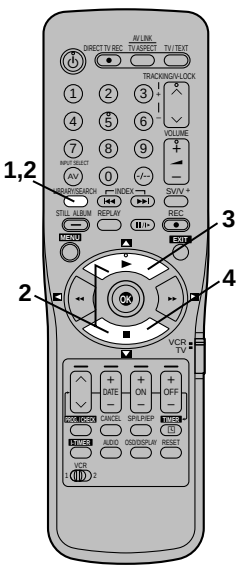
Notes:

- Even after you have selected the [Find space to record] and the VCR has located the tape position from which to make a new recording, we recommend you to confirm that this tape position is really suitable, before you start recording.
- You cannot select the item [Find space to record] when there is almost no space for recording on a videotape.

Intro-Jet Scan (For NV-FJ780B)

This VCR automatically records special index signals on the tape every time a recording starts. The Intro-Jet Scan function makes use of these index signals to play back the beginning of each programme recorded on the cassette one after another at high speed.
This lets you quickly and easily check the contents of a cassette and find a desired programme.

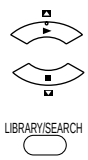
- Each programme recorded on the tape must be at least 15 minutes long (25 minutes in the EP mode).



1

Insert a recorded video cassette.
If a cassette is already in the VCR, press the [LIBRARY/SEARCH] button.
- As soon as the cassette is inserted, the Cassette Number Check starts. Wait a few moments until it is completed. (See page 15.)

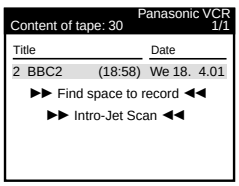
If the [Intro-Jet Scan] indication does not appear on the TV screen, press the [LIBRARY/SEARCH] button to make it appear.

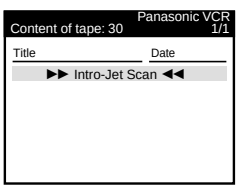
2 

Press the [Cursor] buttons (▲▼) to select the [Intro-Jet Scan] indication and then press the [LIBRARY/SEARCH] button to start Intro-Jet Scan.
- After rewinding the tape to the beginning, the VCR plays it back at high speed for approximately 10 seconds. It then fast-forwards the tape to the next tape position marked by an index signal (beginning of a programme), and every time an index signal is found, the VCR switches over to high-speed playback (Cue) for about 10 seconds.

3
When you have found the programme that you want to view, press the [Play] button to start normal playback.

4
To Cancel the Intro-Jet Scan or to Stop Playback:
Press the [Stop] button.





Assemble Editing

Assemble editing is the process of copying scenes from an external source such as a movie camera, to this VCR. These scenes can be assembled in the order of your choice to create your own unique composition.

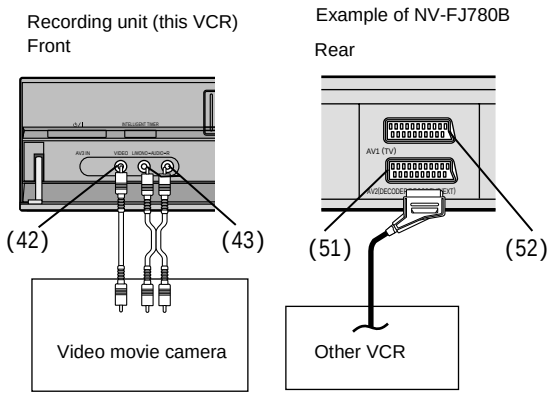
Preparations:

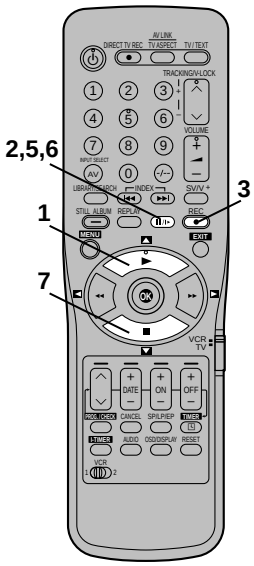
- Connect a video movie camera or a VCR to this VCR with an audio/video cable or a 21-pin Scart cable, as shown in the illustration.
- Display the VCR picture on the TV.
- Insert the cassette on which you wish to record, and ensure that its erasure prevention tab is intact.
- Set the [VCR/TV] switch (23) to [VCR].
- Press the [INPUT SELECT] button (3) to select the AV Input (external input) [A1], [A2] or [A3] depending on the socket(s) on the VCR to which the source unit has been connected.

  A1: When connected to the AV1 21-pin Scart socket (52)

  A2: When connected to the AV2 21-pin Scart socket (51)
  - Make sure that [AV2] is set to [NORMAL]. (See page 39.)

  A3: When connecting a mono source to the front inputs use the left audio connector only.
  - Use the L connector for operations in the normal (monaural) mode.





1	▲/▶	Press the [Play] button to start playback.
2	II/I▸	At the point where you want to join a new scene, press the [Pause/Slow] button to put it in the still playback mode.
3	REC	Press the [REC] button to put it in the recording pause mode.
4		Start playback on the source unit and search for the point from which you want to record (copy) onto this VCR.
5	II/I▸	When that point is reached, press the [Pause/Slow] button again to start recording the new picture and sound from the playback unit.
6	II/I▸	To record (copy) additional scenes, press the [Pause/Slow] button to put this VCR in the recording pause mode and then perform above steps **4** and **5** again.
7	■/▼	When you have finished recording, press the [Stop] button.

VCR Display

Hint:

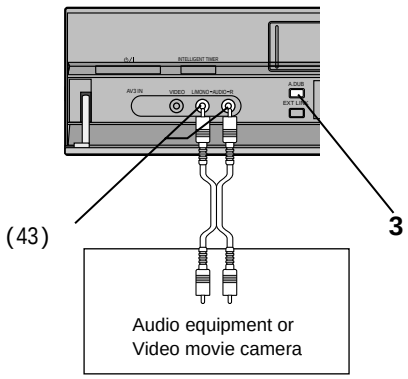
- The new sound is recorded on both the Hi-Fi audio tracks and the normal audio track. The sound recorded on the normal audio track is always in mono.

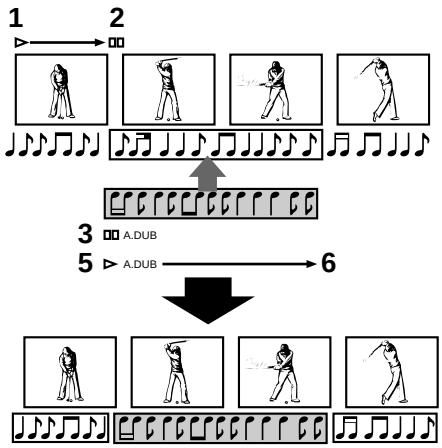
Note:

- If you leave the VCR in the recording pause mode for more than 5 minutes in step **3** or **6**, the VCR automatically stops to protect the video heads.

Audio Dubbing

The audio dubbing function lets you record new sound onto the normal (mono) audio track.
Although this erases the original sound on the normal audio track, the sound on the Hi-Fi audio tracks remains unchanged.
Use this function to add narration or background music to previously made recordings.

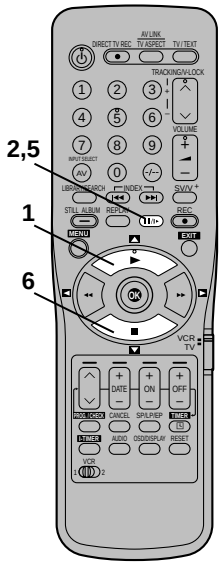




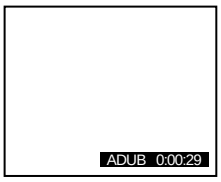
Preparations:

- Connect the audio equipment or a video movie camera to this VCR with an audio cable.
- Select the video playback channel/AV input on your TV.
- Insert the cassette on which the audio dubbing is to be performed, and ensure that its erasure prevention tab is intact.
- Press the [INPUT SELECT] button (3) to select the AV Input (external input) [A1], [A2] or [A3] depending on the socket(s) on the VCR to which you have connected the source unit.

  A1: When connected to the AV1 21-pin Scart socket (52)
  A2: When connected to the AV2 21-pin Scart socket (51)
  • Make sure that [AV2] is set to [NORMAL]. (See page 39.)
  A3: When connecting a mono source to the front inputs use the left audio connector only.
  • Use the L connector for operations in the normal (monaural) mode.



1		Press the [Play] button to start playback to search for the point from which you want to start audio dubbing.
2		At the point from which you want to perform audio dubbing, press the [Pause/Slow] button to put it in the still playback mode.
3	A.DUB	Press the [A.DUB] button on this VCR to put it in the recording pause mode.
4		Start playback on the source unit so that you can hear the sound.
5		When you reach the point from which you want to start audio dubbing, press the [Pause/Slow] button again to start recording the new sound or start your narration.
6		At the point where you want to stop audio dubbing, press the [Stop] button to finish recording.



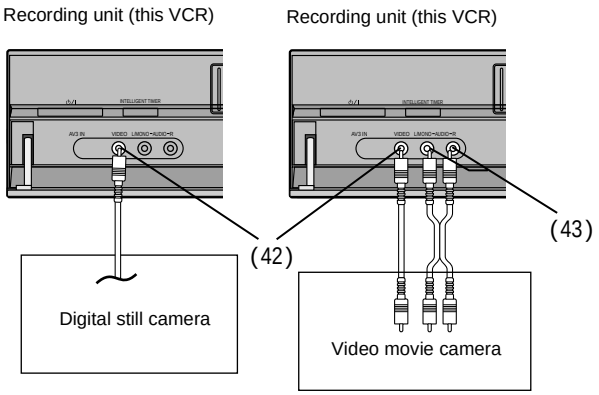
Hints:

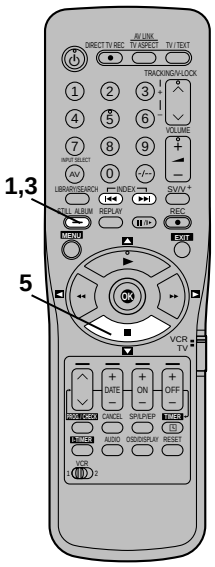
- For audio dubbing with narration, you can use the built-in microphone of the connected video movie camera.
- The new sound is recorded on the normal audio track. The original sound remains on the Hi-Fi audio tracks. The sound recorded on the normal audio track is always in mono.
- To listen to the sound recorded with audio dubbing, press the [AUDIO] button (17) during playback to select the normal audio track. (For details, refer to page 37.)
- To listen to the sound recorded with audio dubbing together with the original sound, first set [Audio playback] to [MIX] (for details, refer to page 38) and then press the [AUDIO] button (17) during playback to select the mixed sound.

Album Function

The album function lets you collect desired scenes (both moving and still pictures) and create the equivalent of a photo album on a video cassette.
The pictures can be copied onto the cassette from a video movie camera, a digital still camera or another VCR for a desired time that you can select (3–20 seconds).

Preparations:
- Switch on VCR.
- Connect a digital still camera, a video movie camera or another external source to the Video Input socket (42) and Audio Input sockets (43) on the front panel of this VCR (AV1/AV2 cannot be used with this function).
- Display the VCR picture on the TV.
- Insert a cassette with intact erasure prevention tab.





1 STILL ALBUM — Press the [STILL ALBUM] button on the remote control to put the VCR in the recording pause mode.
- The VCR automatically selects the AV Input (external input) [A3] and then switches over to the recording pause mode. The figure for the preset recording time (seconds) appears on the VCR display. The initial setting is [05] (5 seconds).

VCR Display

2 Start playback on the source unit to search for the point from which you want to copy onto this VCR.

3 STILL ALBUM — When that point is reached, press the [STILL ALBUM] button on the remote control of this VCR again to start recording. The VCR records the picture (and sound) for 5 seconds and then automatically switches over to the recording pause mode.

4 Repeat above steps **2** and **3** to record other scenes in succession.

5 — When you have recorded all of the desired scenes, press the [Stop] button.

To Change the Recording Time:
After step **1** or **3**, press the [INDEX] ►►I or [INDEX] I◄◄ button (31) to change the recording time.
You can set any time between [3] and [20] seconds.

Indication when the recording time is set to [10]

Hints:
- If you connect a digital still camera, use a camera equipped with a video output socket. Use the cable supplied with the still camera to connect it. For details, also read the operating instructions of the equipment to be connected.
- If you leave the VCR in the recording pause mode for more than 5 minutes in step **1** or **3**, the VCR automatically stops to protect the video heads. In this case, press the [STILL ALBUM] button (6) again to put the VCR in the recording pause mode again.
- If you want to add background music or narration to the scenes recorded with the album function, perform Audio Dubbing as explained on the previous page.
- Depending on the output system of the digital still camera, the pictures may not be recorded correctly (e.g. NTSC output).

Glossary

What is PDC?
Programme Delivery Control adjusts the start and stop time of a timer recording automatically to ensure the recording starts and finishes in line with the programme broadcast. This is useful when a programme over-runs the published times.
The station must be transmitting PDC and the exact time must be set for PDC to work.
The VCR detects whether a station is transmitting PDC only during the tuning process.
If PDC is introduced or discontinued by a station you will need to re-tune the VCR before it becomes aware of this.
PDC transmissions are not currently nation-wide so please check with your local broadcaster for more information.

OTR
One Touch Recording
This is a simple method for setting the recording duration quickly without using timer recording. It is especially useful if you have started recording and want the recording to end automatically when you are not there, e.g.; when you go to bed.

If your TV is equipped with the [Q Link][*1], [DATA LOGIC][*2], [Easy Link][*3], [Megalogic][*4] or [SMARTLINK][*5] function and with a 21-pin Scart lead
- Q Link is an advanced system that offers a range of convenient functions such as automatic copying of the tuning position of all available TV stations (in the same order as they are programmed on the TV) into your VCR's memory (this is called Download) if you connect the VCR to your TV with a fully-wired 21-pin Scart lead (not supplied). Depending on the manufacturer, the equivalent of the Q Link function has a different name and may not work exactly the same.
  [*1] [Q Link] is a registered trademark of Panasonic.
  [*2] [DATA LOGIC] is a registered trademark of Metz.
  [*3] [Easy Link] is a registered trademark of Philips.
  [*4] [Megalogic] is a registered trademark of Grundig.
  [*5] [SMARTLINK] is a registered trademark of Sony.
  For details, refer to your TV's operating instructions or consult your dealer.
- Unlike in most commercially sold 21-pin Scart lead, in fully-wired 21-pin Scart lead all 21 pins of one plug are connected to the matching pin of the plug on the other end of the lead. This type of lead is necessary for the Preset Download function to work.

Q Link Function
When the VCR is connected via fully wired SCART to the TV, Q Link allows:

Download from the TV —	Copies the tuning set-up from your TV to your VCR.
Direct TV Recording —	the programmed being viewed on the TV can be recorded immediately by pressing the [DIRECT TV REC] button (36).
TV/VCR Auto switch On —	whilst in standby mode pressing the [Play] (26), [SV/V+]([VIDEO Plus+]) (30) or [PROG./CHECK] (14) button will turn the TV and VCR on.
Auto Switch Off —	When the TV is turned off, the VCR will be turned off as well. Only operates in Rewind, Stop mode or when no tape is inserted.

VISS=VHS Index Search System
An index signal is recorded on the tape at the start of each recording. It can be used to quickly find the start of a recording on a tape.

OSD — On-Screen Display
The VCR model is shown on the TV screen when the OSD is on (menu setting) and the [OSD/DISPLAY] button (18) is pressed.

CVC Super — Crystal View Control Super
CVC Super gives the best picture quality possible by adjusting to the individual tape characteristics and [CVC] indicator appears on the VCR display while the VCR is on.

NICAM Digital Broadcasting System
This is a 2 channel sound broadcast system which in most instances provides high quality stereo sound. Broadcasters can also transmit two separate mono soundtracks on this system.

Recording Speed SP/LP/EP
SP Recording normal speed so that a 3-hour tape lasts for 3 hours (for best recording quality).
LP Recording at half the speed so that a 3-hour tape can last 6 hours (the quality of the recording is not as good as SP recordings).
EP Recording at one third the speed so that a 3-hour tape can last 9 hours (the quality of the recording is not as good as SP and LP recordings).

RGB Signals
The RGB signals are looped through from an external source only and are not recorded or produced by this VCR.

Tracking/V-Lock
Tracking and Vertical lock controls are used to make manual adjustments when the picture becomes unstable or contains noise bars during Playback, Slow Playback and Still Playback modes.

Trouble Shooting

I HAVE AN ON SCREEN MESSAGE.

You have attempted to carry out a function, which is not possible at this time. It may be that no tape is inserted and you have pressed the [Play] button (26), or that you tried to change the details of a timer recording whilst it was being carried out.
Please follow the instructions as given on the display.

THE VCR DISPLAY IS NOT ILLUMINATED.

The AC mains lead has become disconnected.
Connect mains lead securely.

THE DISPLAY IS LIT, BUT THE VCR CANNOT BE OPERATED.

The VCR is in timer recording mode.
Press the [TIMER (REC)] button (20) to cancel the mode.
Safety devices are operating.
Disconnect the mains, wait for 1 minute and reconnect. If problem persists, consult service engineer.

VCR PICTURE DOES NOT APPEAR ON THE SCREEN.

If connected via RF check, RF output channel and adjust if necessary. (See page 10 for details.)
If connected via SCART, check connections and choose appropriate AV channel on TV.

AUTO CLOCK SETTING DOES NOT OPERATE.

Teletext information is not available or cannot be read.
Set the clock manually. (See page 36 for details.)

DOWNLOAD CANNOT BE PERFORMED.

The VCR is not connected to a Q Link (or similar) TV via the 21-pin Scart connector.
Check Q Link compatibility and that Scart lead is fully wired.

THE PICTURE, DURING PLAYBACK, IS DISTORTED BLACK AND WHITE OR HAS HORIZONTAL NOISE BARS.

The tracking adjustment is not correct.
Adjust the tracking. (See page 17.)
The playback channel on the TV has not been tuned properly.
Re-tune the TV.
The video heads may be worn or clogged.
Consult service engineer.

THE PICTURE OF A RECORDED PROGRAMME IS DISTORTED OR MISSING.

The aerial or connection is defective.
Check connections and reconnect as necessary.
No programme was recorded because the VCR is not tuned correctly.
Re-tune the VCR.
Incorrect programme position was selected.
Select correct channel.

TIMER RECORDING DOES NOT OPERATE CORRECTLY.

Time and date were not set correctly. Re-set correctly.
The start or finish time was not set correctly. Re-set correctly.
The VCR was not put into timer recording mode.
Put VCR into timer recording mode.

RECORDING FROM AN EXTERNAL SOURCE IS NOT POSSIBLE.

The incorrect AV input was selected.
Check which AV input is in use and select this on the VCR.
The leads are not connected properly.
Check connections and adjust as necessary.

THE REMOTE CONTROL DOES NOT OPERATE CORRECTLY.

The remote signal cannot reach the VCR.
Point the remote at the front of VCR and make sure that there are no objects in the way.
The remote is too far from the VCR.
Move closer to the VCR or replace the batteries.
The batteries have been inserted incorrectly. Insert the batteries correctly.
The wrong remote control mode has been selected. Change the remote control mode.
The [VCR/TV] switch (23) is on [TV]. Switch over to [VCR].

THE TAPE LIBRARY SYSTEM DOES NOT WORK CORRECTLY (For NV-FJ780B)

The Cassette Number Check has failed.
The Cassette Number Check was cancelled midway.
Try to perform the Cassette Number Check again. (See page 29.)
The inserted cassette is new (unrecorded).
The inserted cassette was recorded on another VCR and does not have a cassette number.
The inserted cassette was recorded on a model NV-FJ780B VCR other than this unit.
The cassette number of the inserted cassette has been deleted from the Tape Library data.
The Library memory may be full.
→The Cassette Number Check is designed to fail whenever one of the above conditions applies; this is not a malfunction.

The recorded programme has not been registered in the Tape Library data.
The length of the recorded programme is less than 15 minutes in the SP or LP mode.
Record for more than 15 minutes in the SP or LP mode.
The length of the recorded programme is less than 25 minutes in the EP mode.
Record for more than 25 minutes in the EP mode.
No Tape Library data is registered when insert editing is performed in a previously recorded programme.
This is not a malfunction.

Specifications

NV-FJ780B
NV-FJ730B

Power Source:	220-240 V AC 50/60 Hz
Power Consumption:	18 W (NV-FJ780B) 18 W (NV-FJ730B)

Video Recording System: 2 rotary heads, helical scanning system
Video Heads: 4 heads
Audio Heads: 2 heads (Hi-Fi)
Tape Speed: SP; 23.39 mm/s
LP; 11.7 mm/s
Tape Format: VHS tape
Record/Playback Time: SP; 240 min with NV-E240
LP; 480 min with NV-E240
FF/REW Time: approx. 60 s with NV-E180

VIDEO

Television System:
CCIR; 625 lines, 50 fields, PAL colour signal

Modulation System:
Luminance; FM azimuth recording
Colour signal; converted subcarrier phase shift recording

Input Level:

AV1/AV2;	1.0 Vp-p,	75 ohm, terminated
VIDEO IN (AV3) (PHONO);	1.0 Vp-p,	75 ohm, terminated

Output Level:

AV1/AV2;	1.0 Vp-p,	75 ohm, terminated
RF Modulated;	UHF channel (21-68),	75 ohm

AUDIO

Input Level:

AV1/AV2;	−6 dBV,	more than 10 kohm
AUDIO IN (AV3) (PHONO);	−6 dBV,	more than 10 kohm

Output Level:

AV1/AV2;	−6 dBV,	less than 1 kohm
AUDIO OUT (PHONO);	−6 dBV,	less than 1 kohm

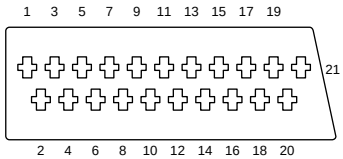
Audio Track:
1 track (Normal-mono only), 2 channels (Hi-Fi sound-stereo)

Video Horizontal Resolution: Colour; more than 240 lines (SP)
Signal-to-Noise Ratio: Video; more than 43 dB (SP)
Dynamic Range: Audio; more than 90 dB/Hi-Fi
Audio Frequency Response: 20 Hz-20 kHz/Hi-Fi
Wow and Flutter: 0.005% Wrms/Hi-Fi
Operating Temperature: 5˚C–40˚C
Operating Humidity: 35%–80%
Weight: 3.5 kg
Dimensions: 430 (W)×87 (H)×282 (D) mm

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

21-pin Scart Socket

The 21-pin Scart socket transmits both input and output signals for picture and sound. TVs equipped with the same type of socket can be connected here. This type of socket is also called Peritel, Euro Connector and Euro AV.



AV1 Scart Socket (for Q Link connection)

1 Audio output CH2 (R)	12 No connection
2 Audio input CH2 (R)	13 Red ground
3 Audio output CH1 (L)	14 Blanking ground
4 Audio ground	15 Red
5 Blue ground	16 Blanking
6 Audio input CH1 (L)	17 Video output ground
7 Blue	18 Video input ground
8 Switching voltage	19 Video output
9 Green ground	20 Video input
10 Q Link data	21 Ground
11 Green	

AV2 Scart Socket

1 Audio output CH2 (R)	12 Reserved
2 Audio input CH2 (R)	13 Red ground
3 Audio output CH1 (L)	14 Blanking ground
4 Audio ground	15 Red
5 Blue ground	16 Blanking
6 Audio input CH1 (L)	17 Video output ground
7 Blue	18 Video input ground
8 Switching voltage	19 Video output
9 Green ground	20 Video input
10 Control signal	21 Ground
11 Green	

The Red, Green and Blue (RGB) video signals are looped through only from an external source unit, for example from a connected a pay-TV decoder, i.e. they are not from tape playback.

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